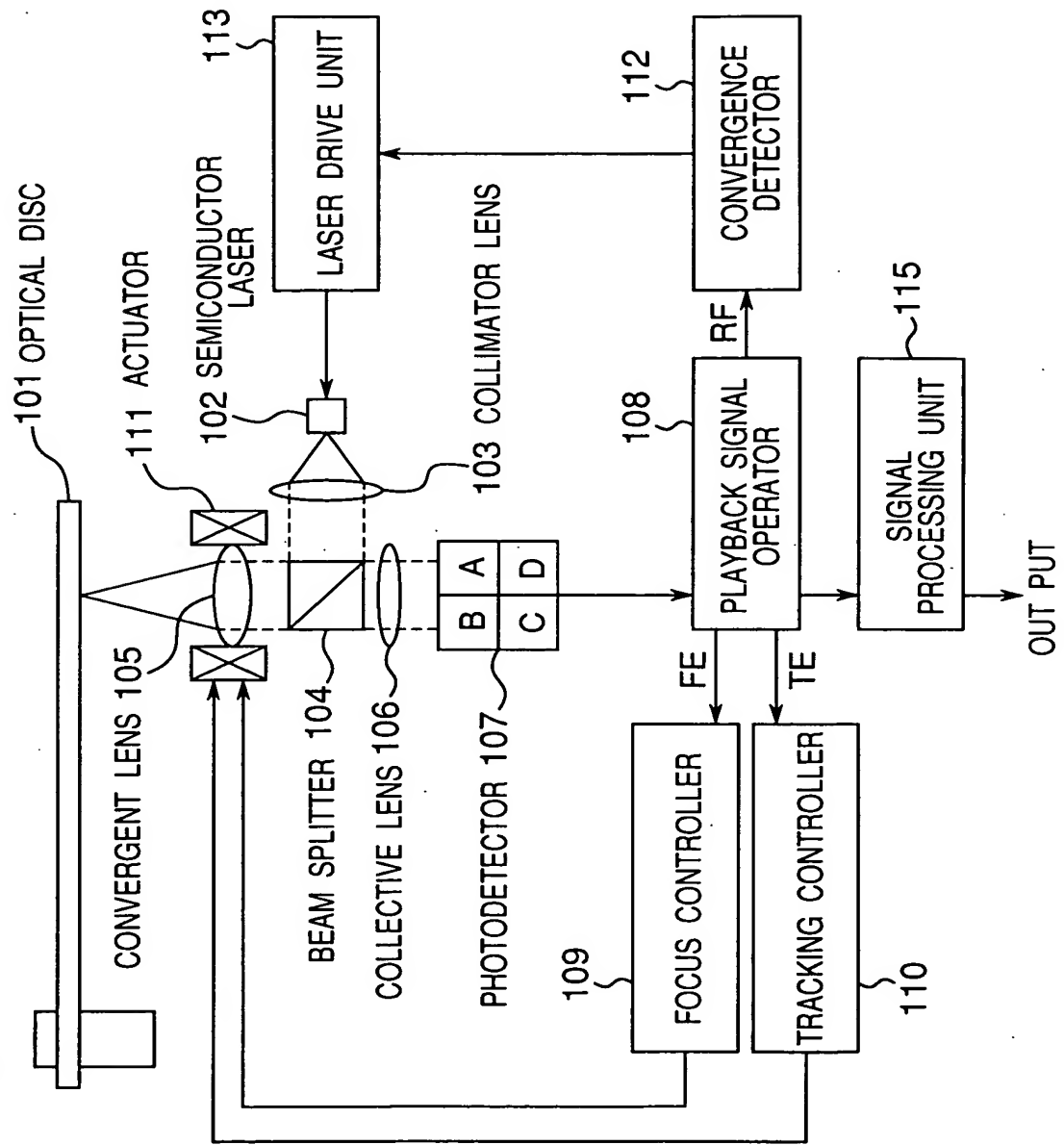


Fig. 1



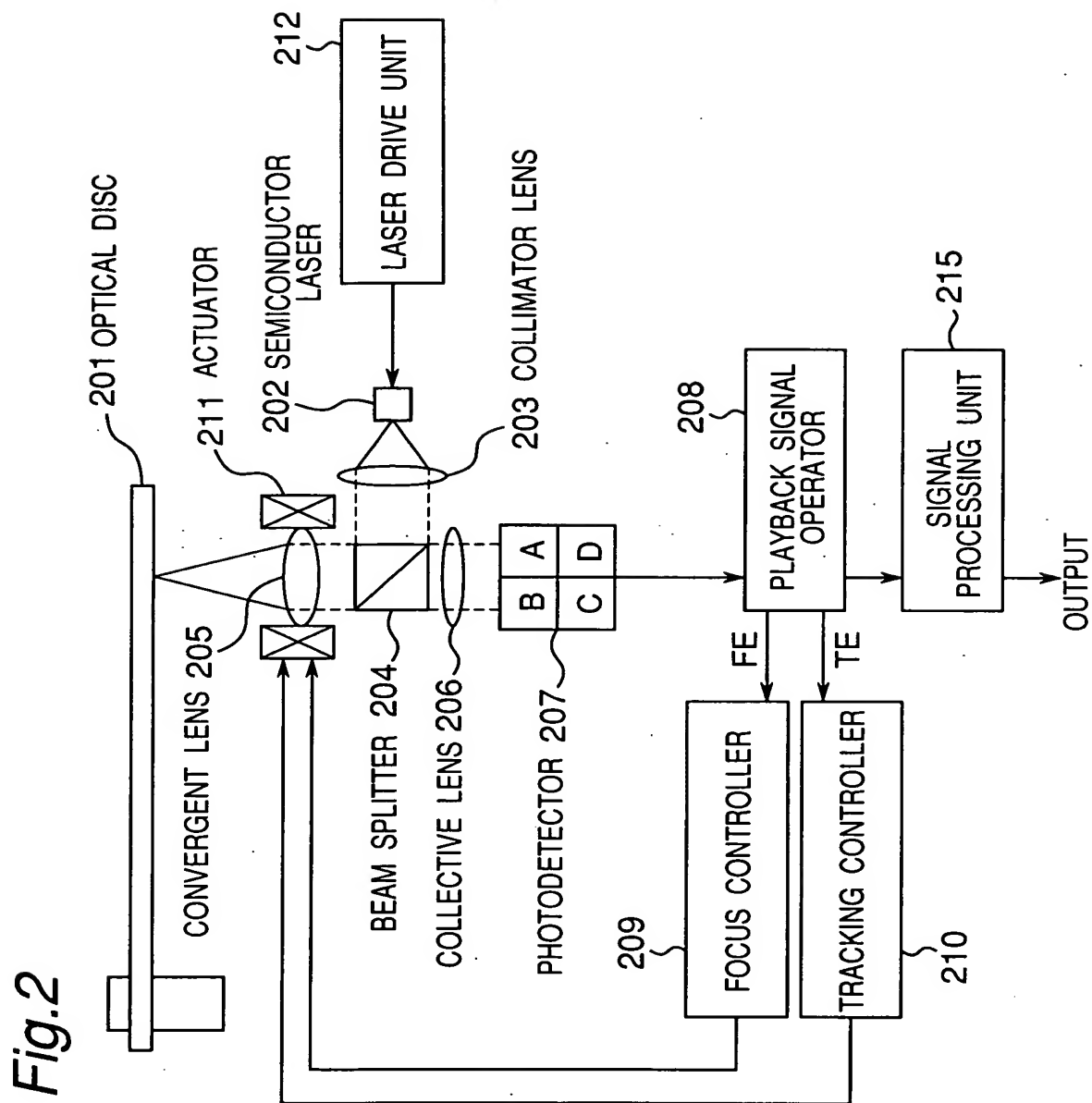
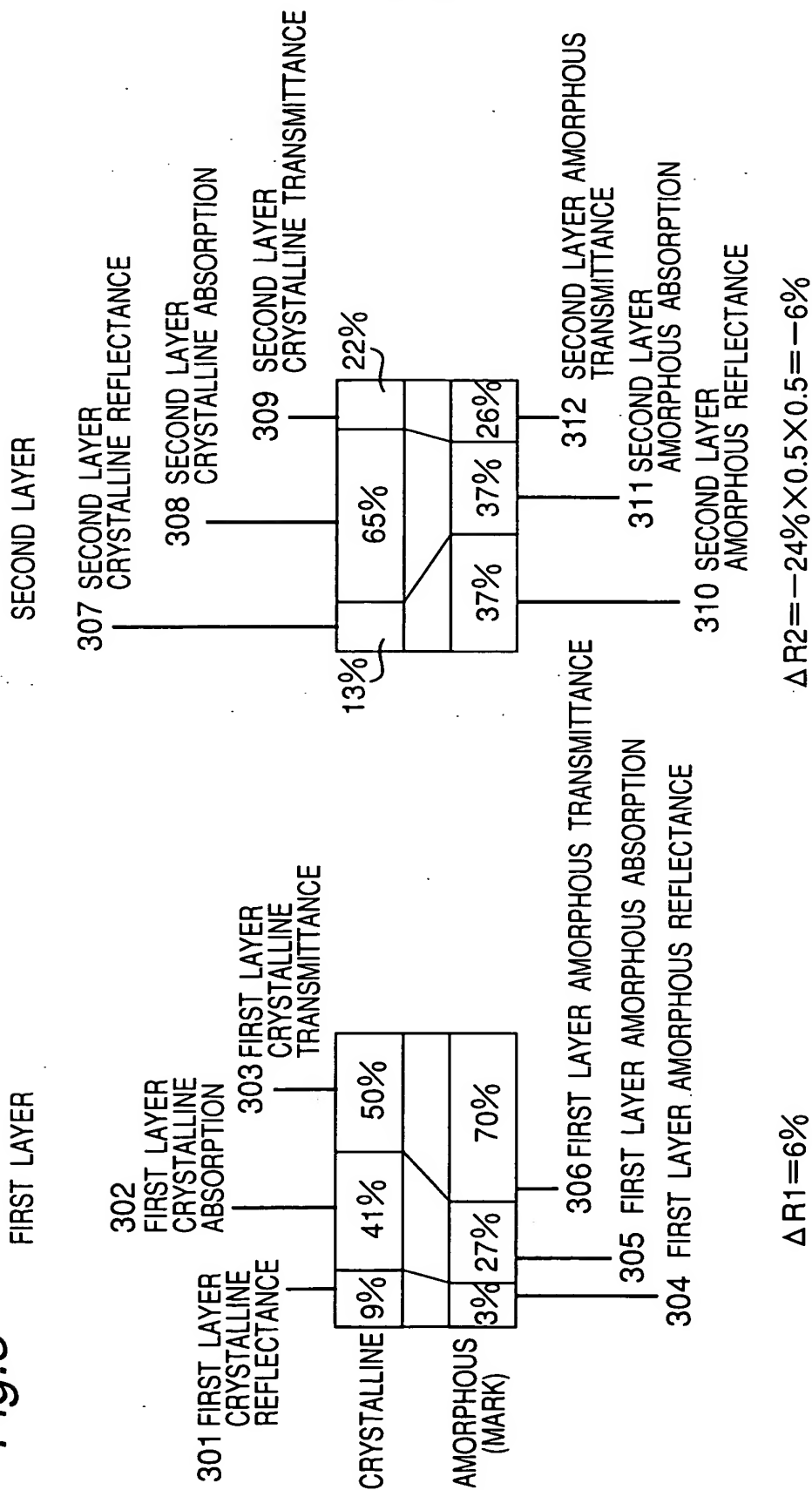


Fig.3



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Fig.4

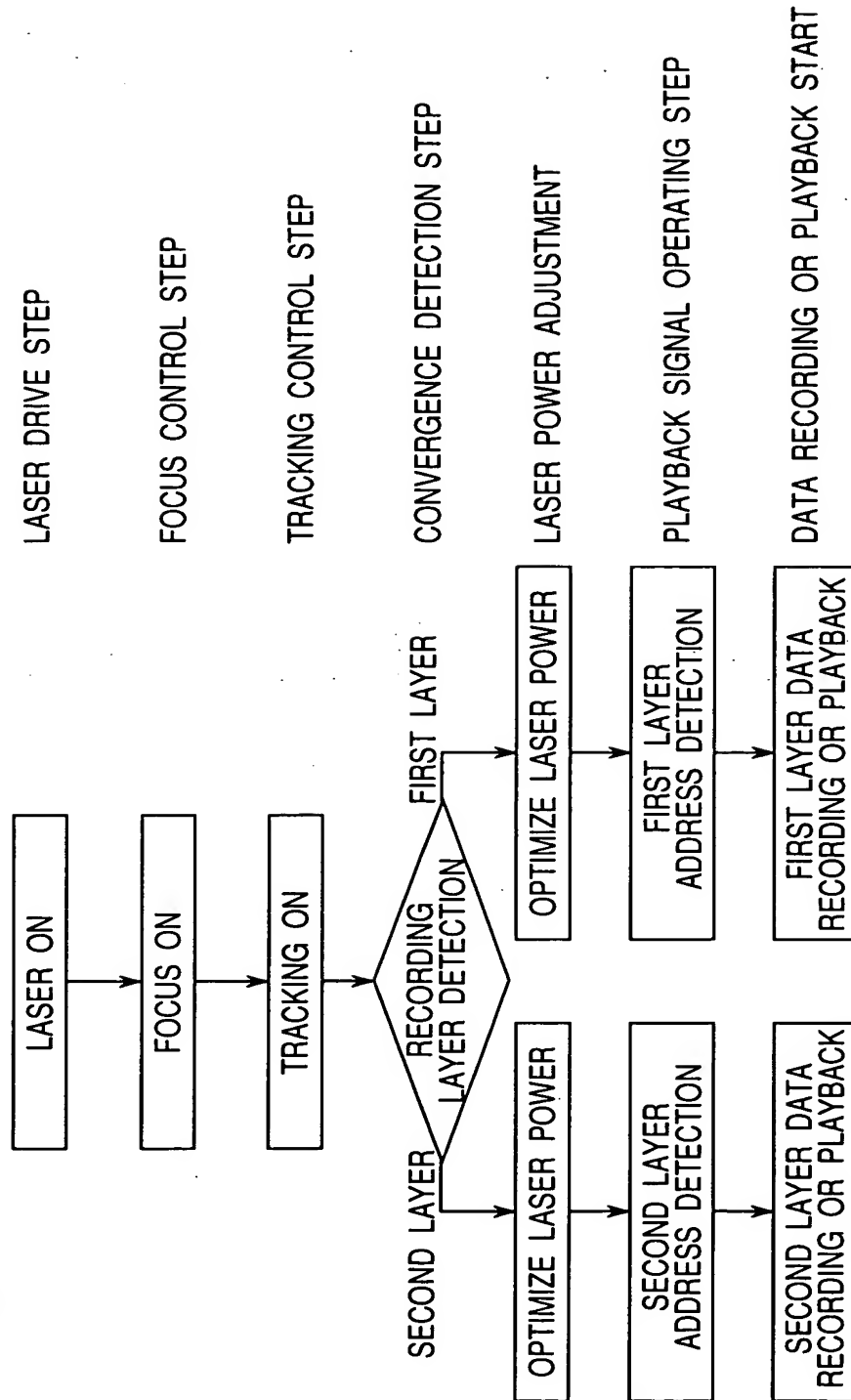


Fig. 5

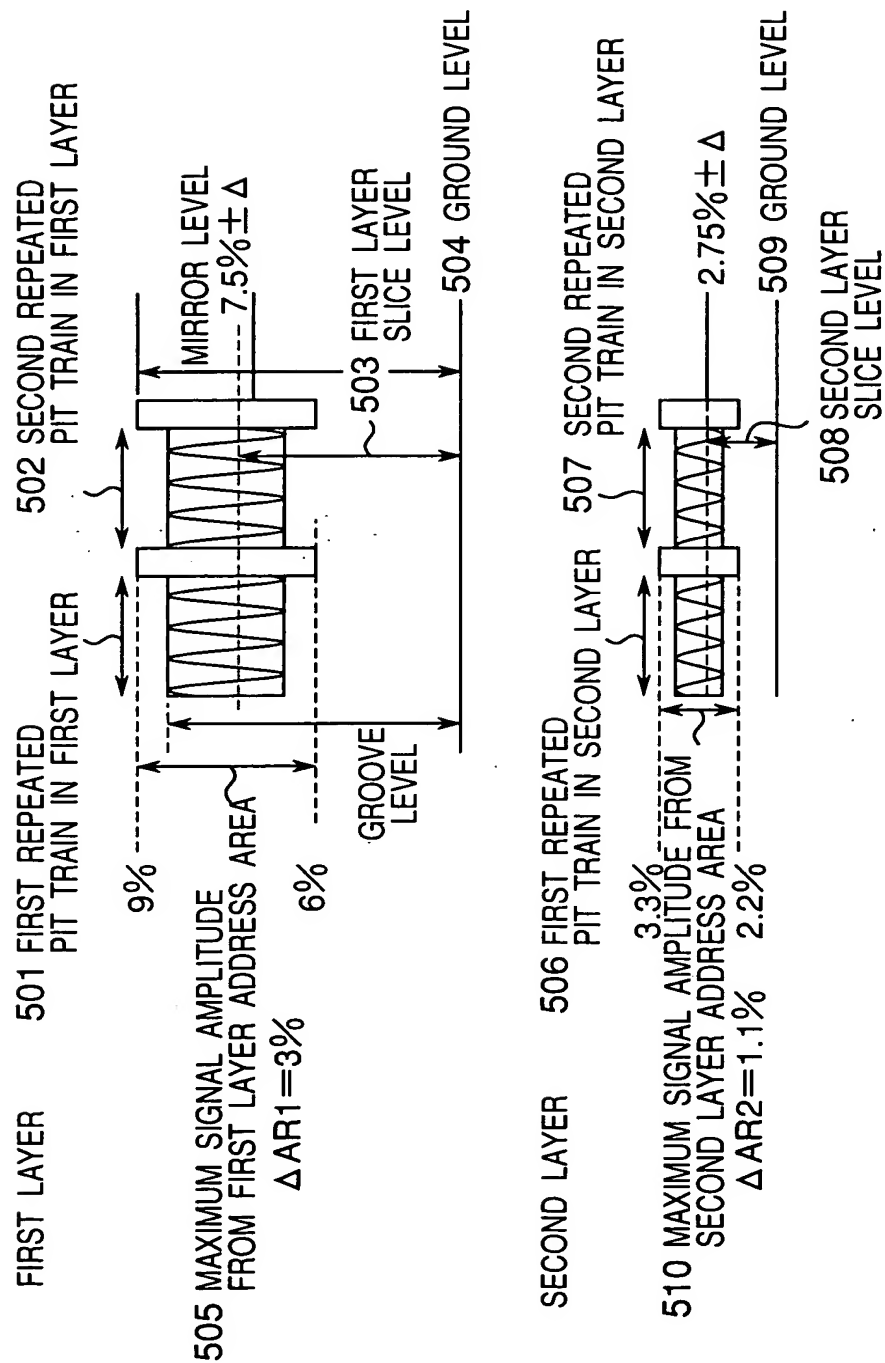
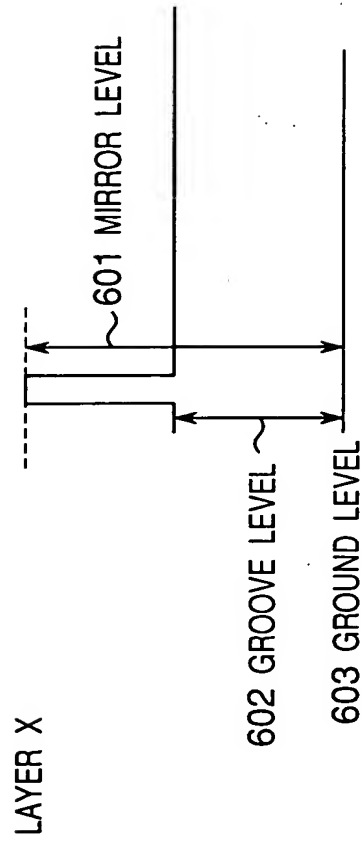


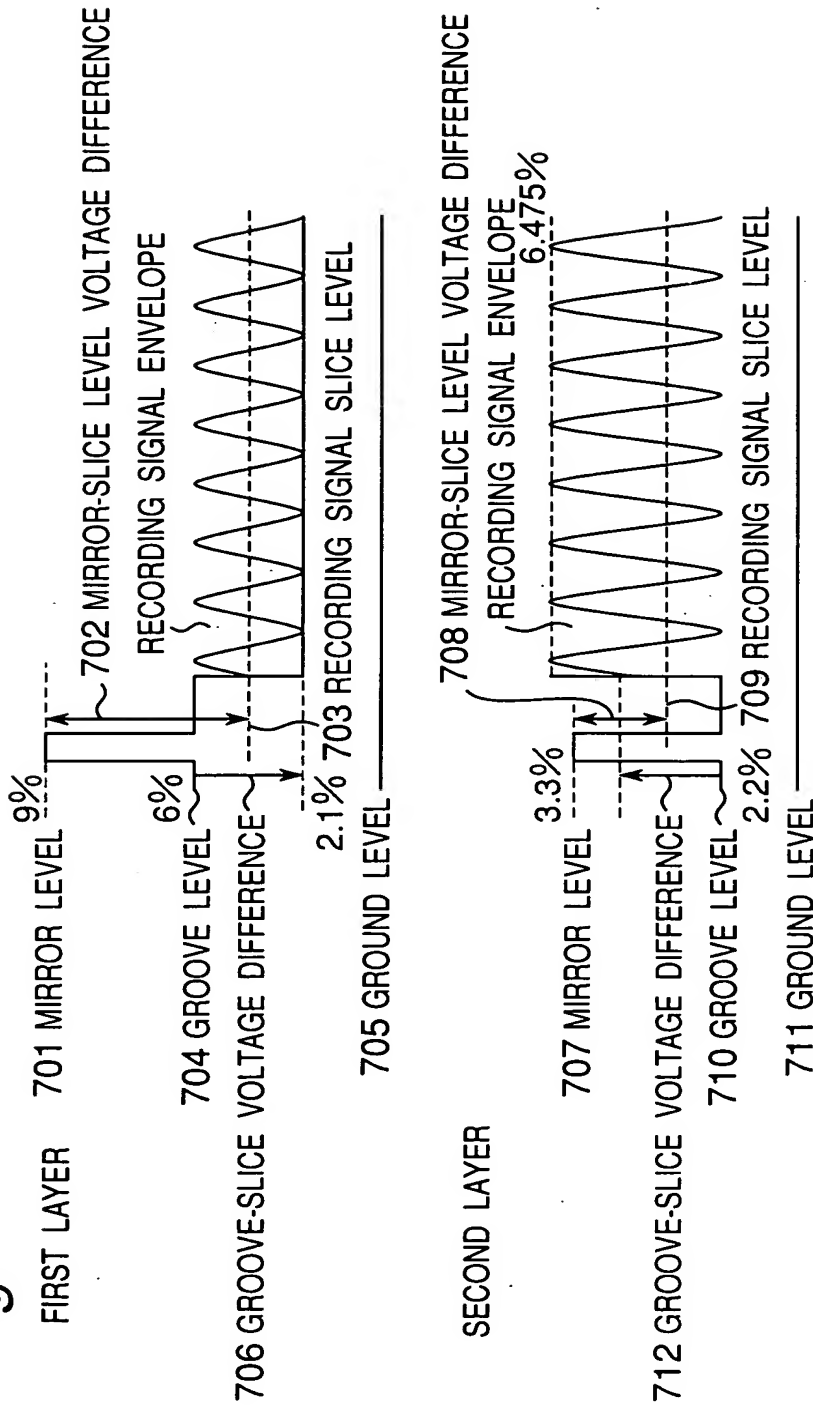
Fig.6



DETECT AS THE FIRST LAYER THRESHOLD VALUE 1e<602 GROOVE LEVEL<THRESHOLD VALUE 1f OR THRESHOLD VALUE 1g<601 MIRROR LEVEL<THRESHOLD VALUE 1h

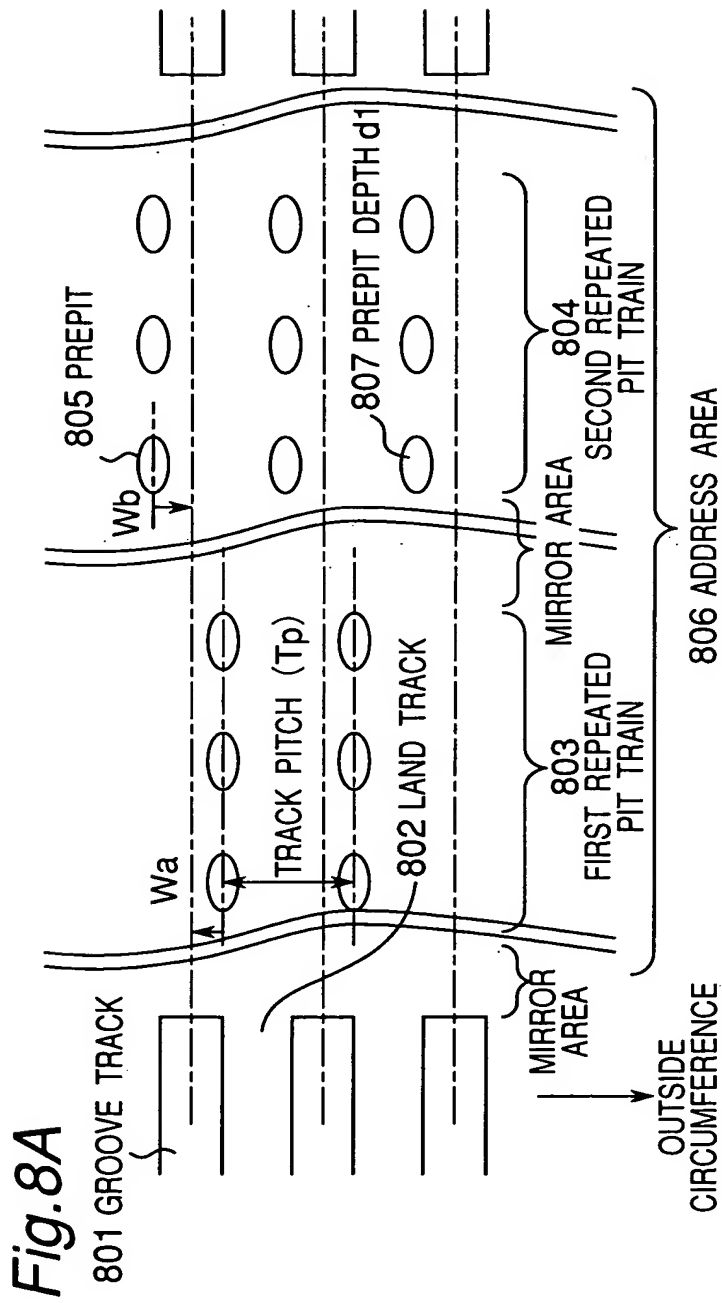
DETECT AS THE SECOND LAYER THRESHOLD VALUE 2e<602 GROOVE LEVEL<THRESHOLD VALUE 2f OR THRESHOLD VALUE 2g<601 MIRROR LEVEL<THRESHOLD VALUE 2h

Fig. 7

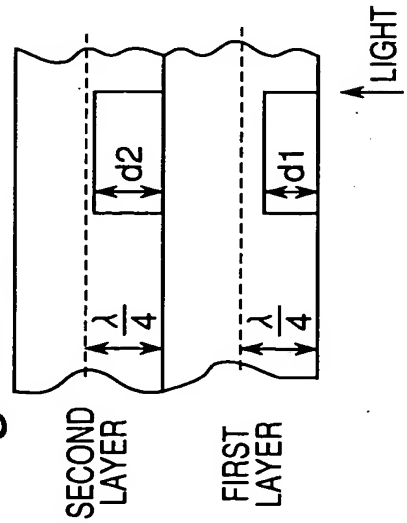


DETECT AS THE FIRST LAYER THRESHOLD VALUE 1<MIRROR-SLICE LEVEL VOLTAGE DIFFERENCE<THRESHOLD VALUE 1j  
OR 0<GROOVE-SLICE VOLTAGE DIFFERENCE

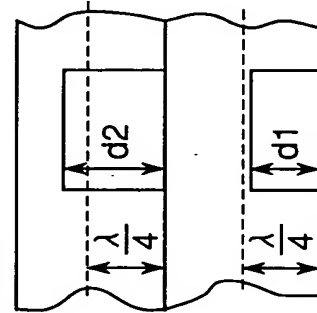
DETECT AS THE SECOND LAYER THRESHOLD VALUE 2i<MIRROR-SLICE LEVEL VOLTAGE DIFFERENCE<THRESHOLD VALUE 2j  
OR 0>GROOVE-SLICE VOLTAGE DIFFERENCE



**Fig. 8B**



**Fig. 8C**



**Fig. 8D**

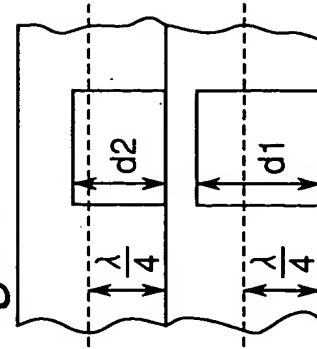
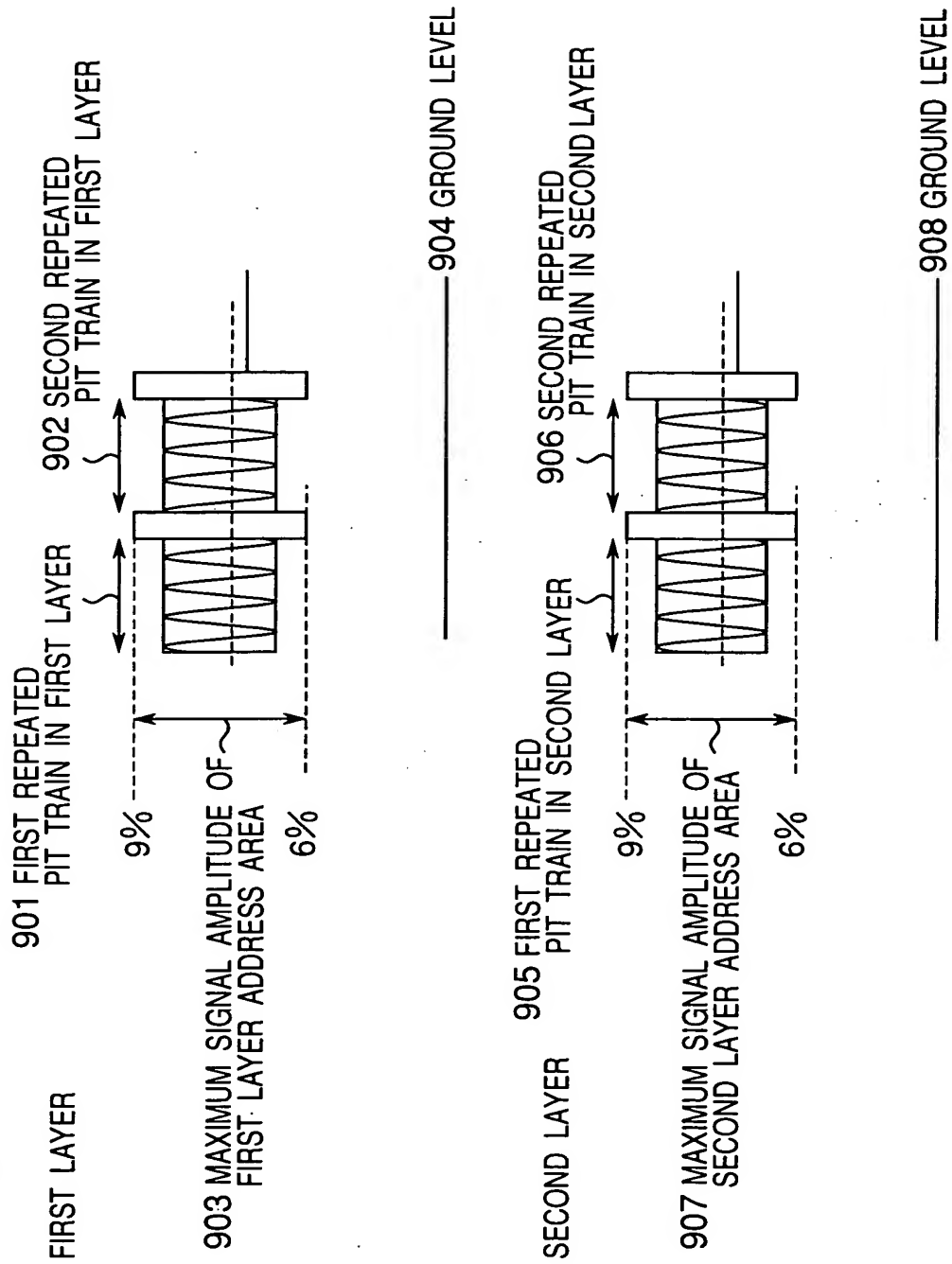
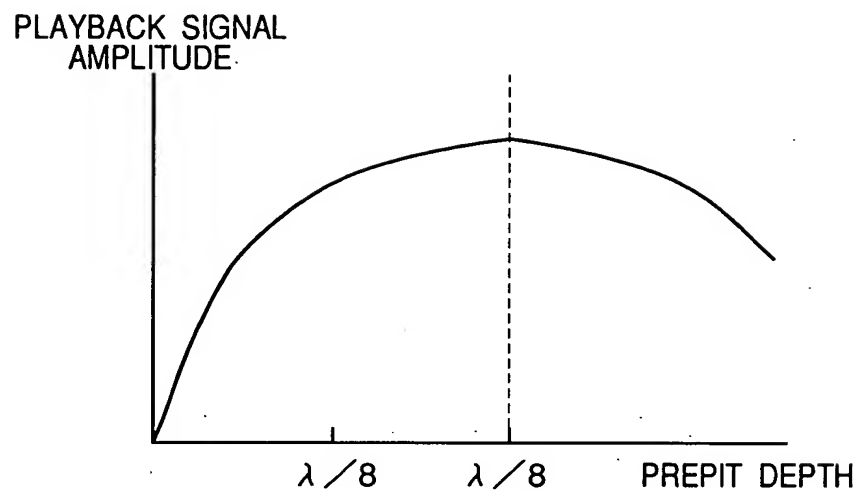


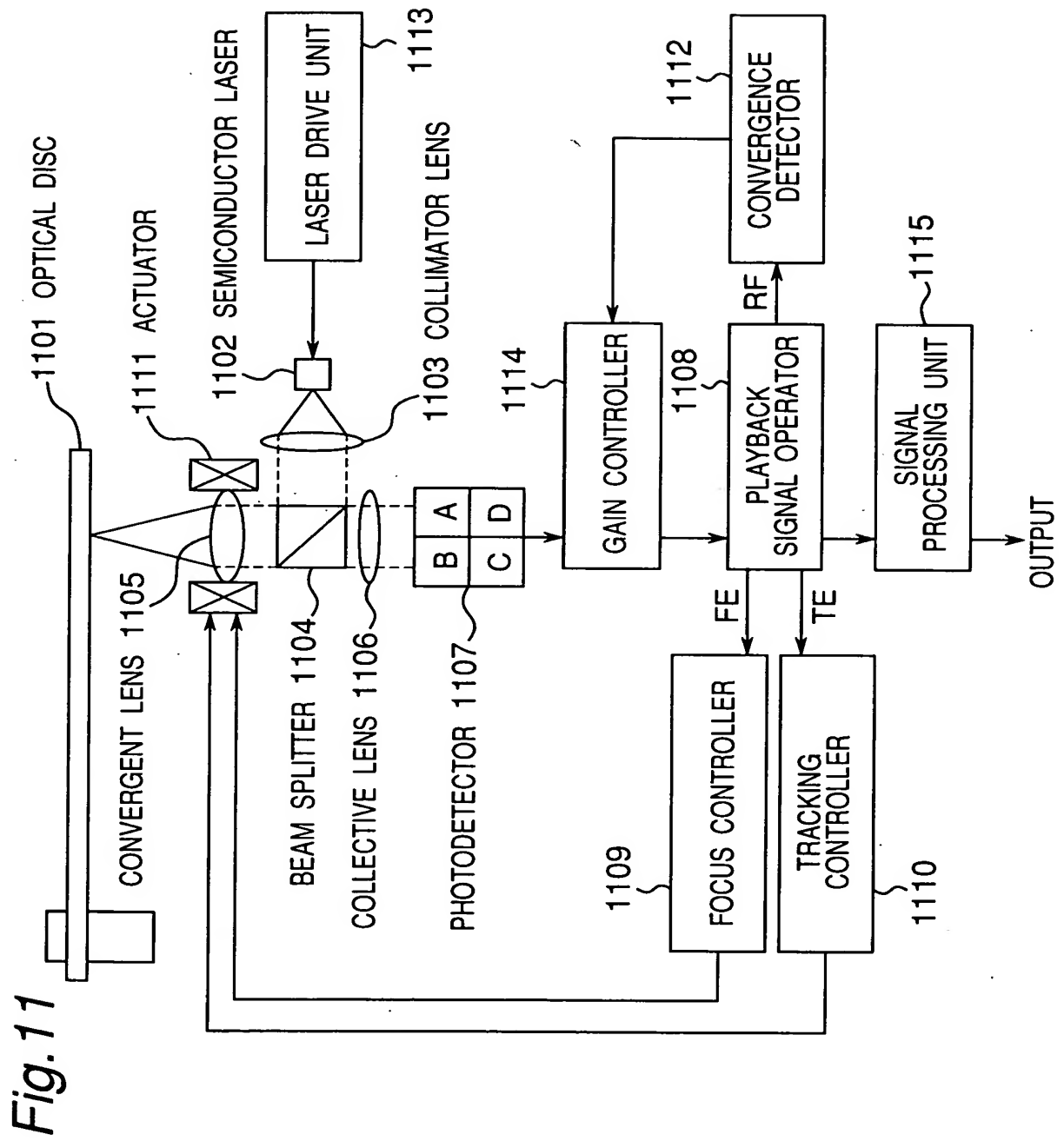


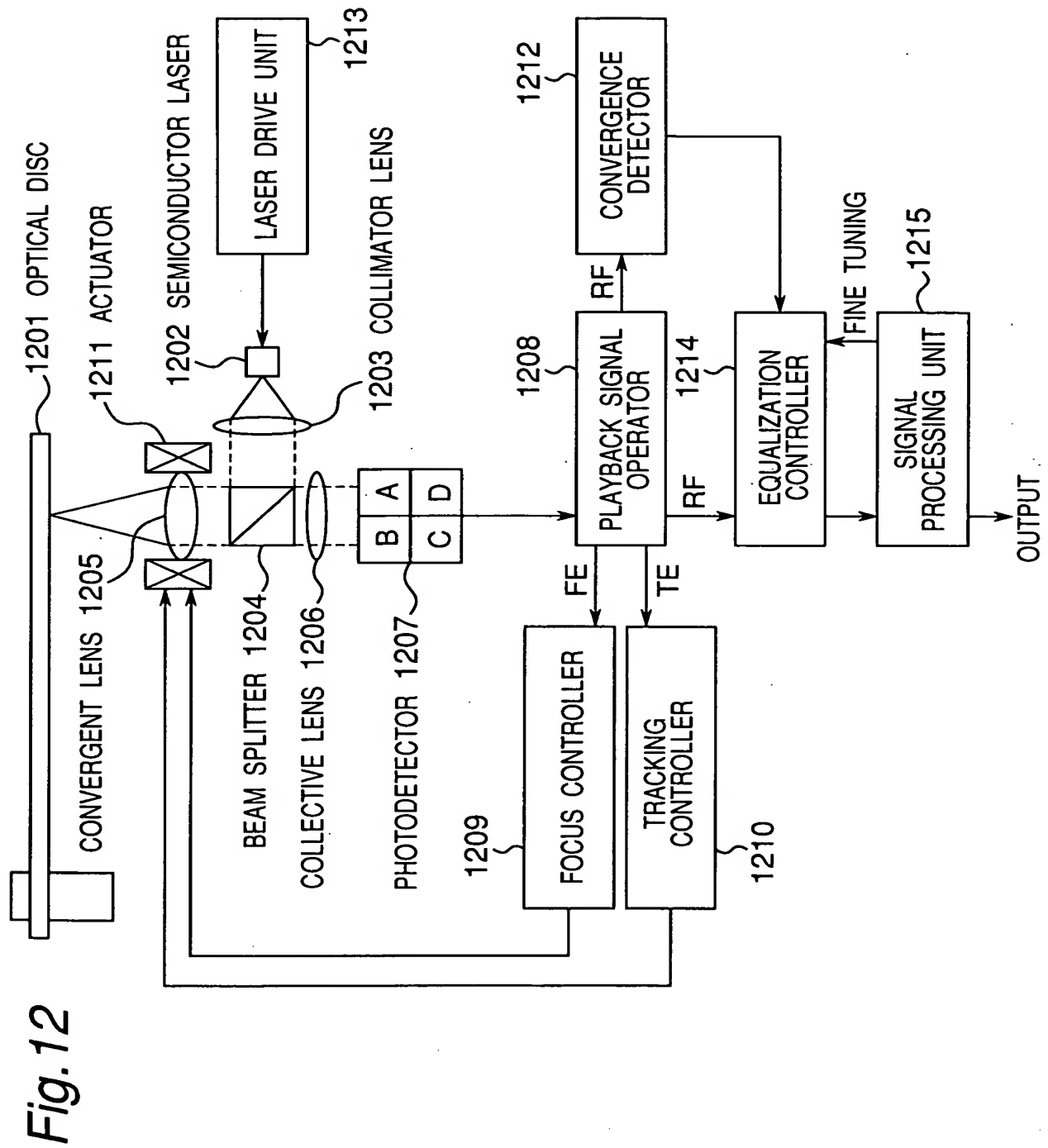
Fig.9

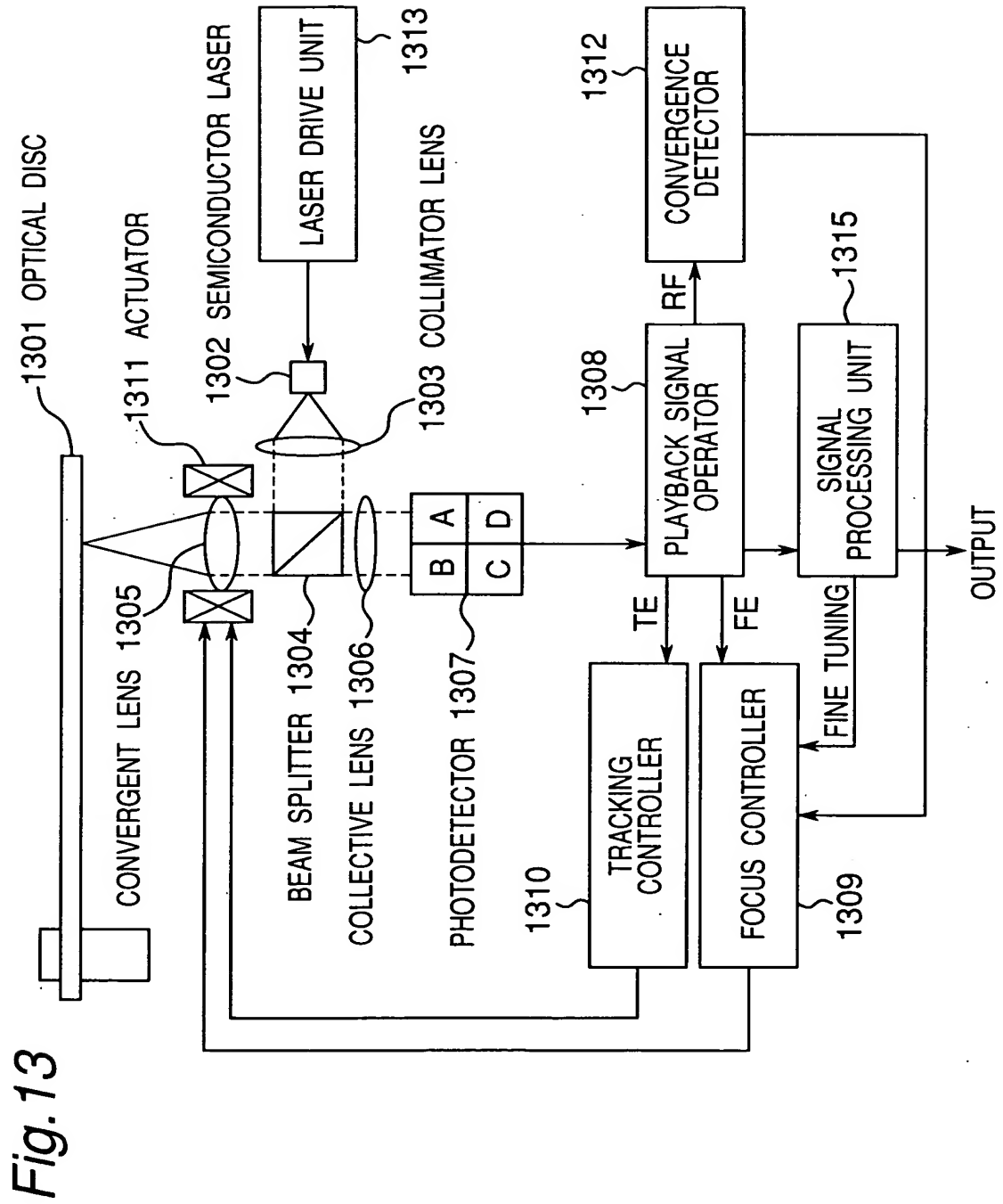


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*Fig. 10*







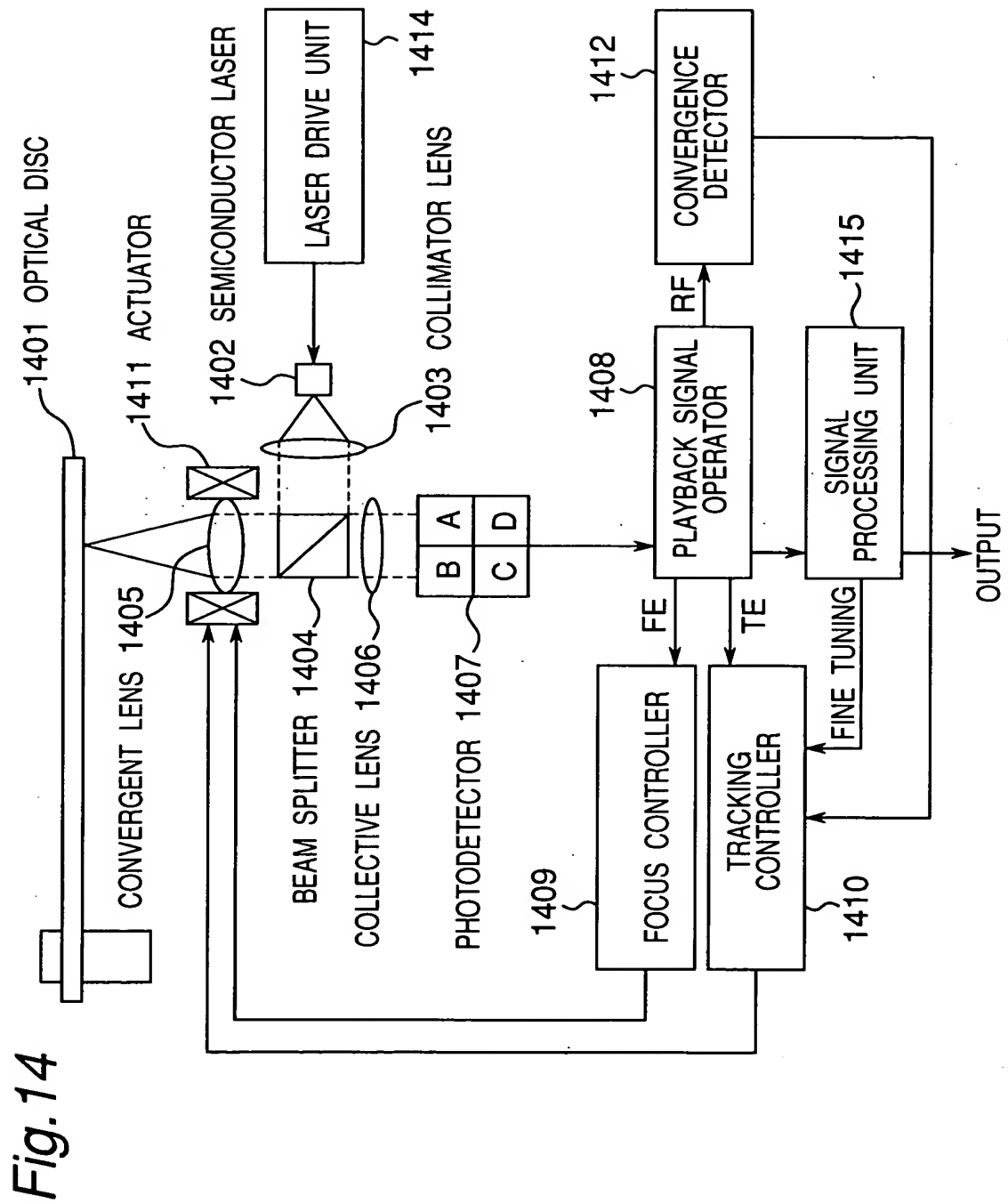


Fig. 15

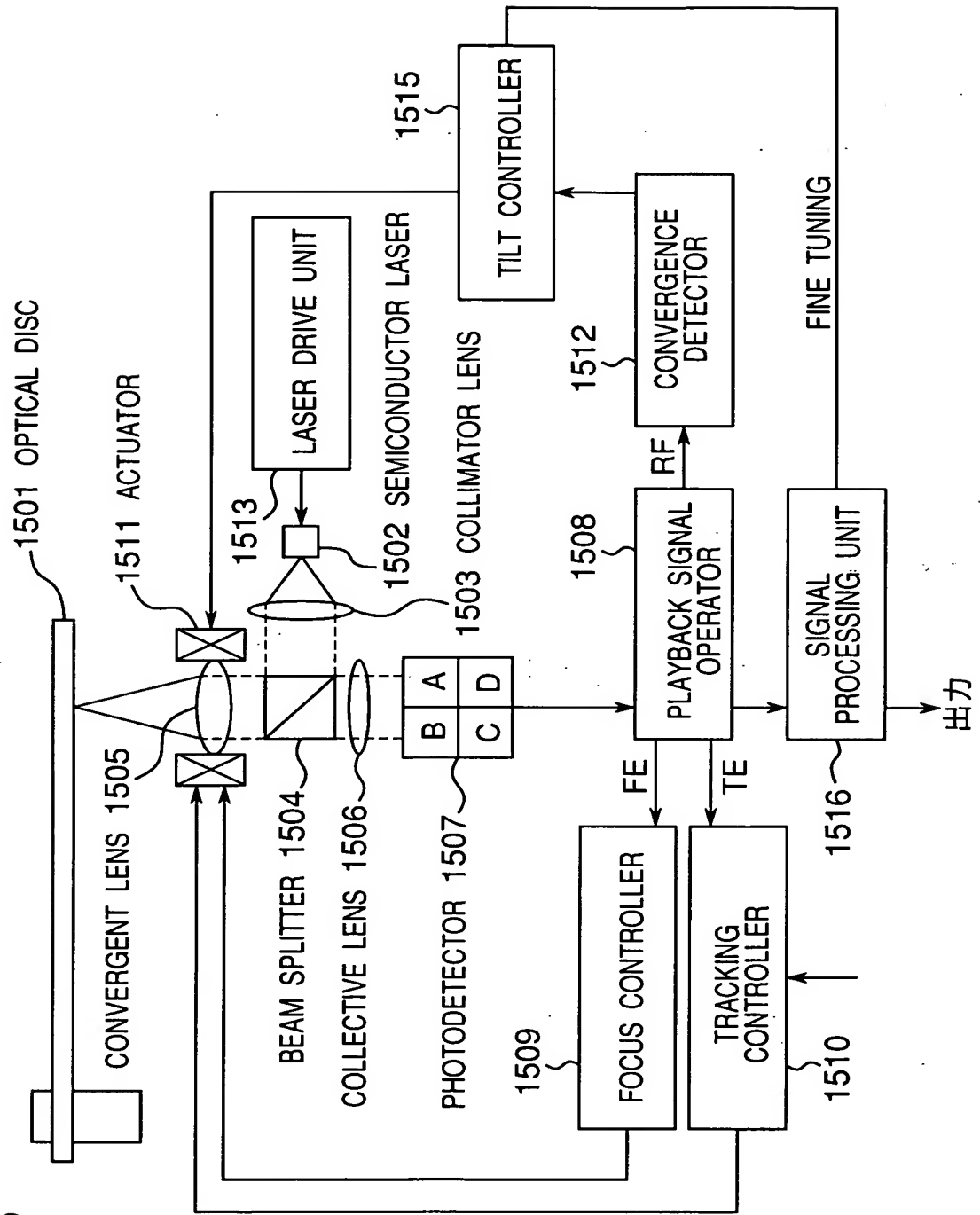
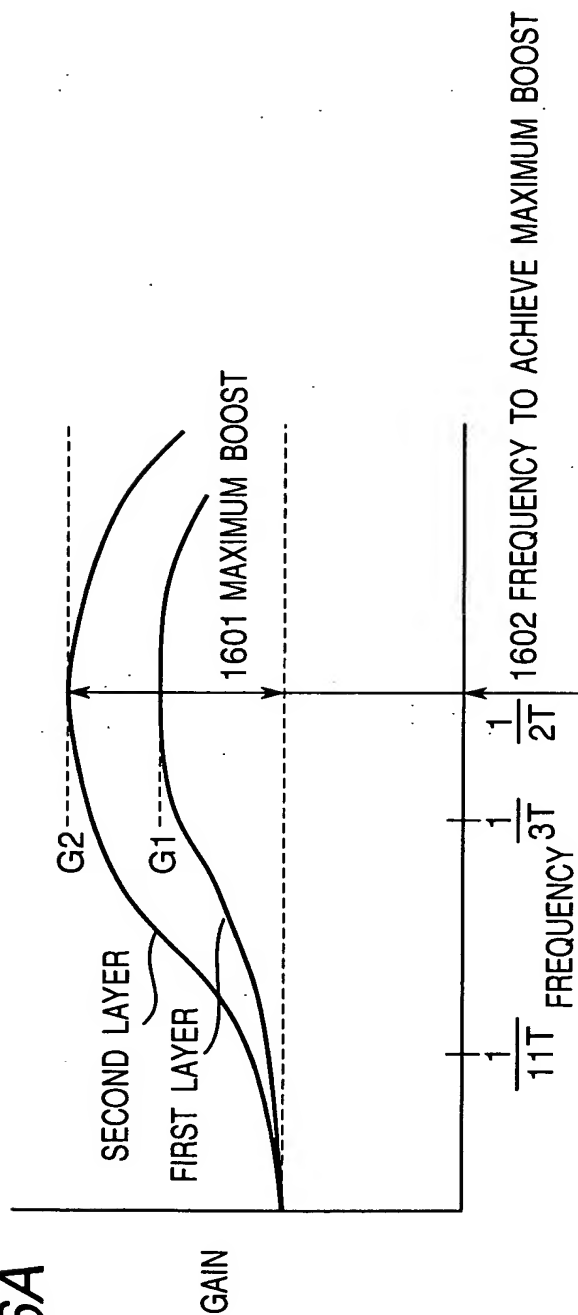
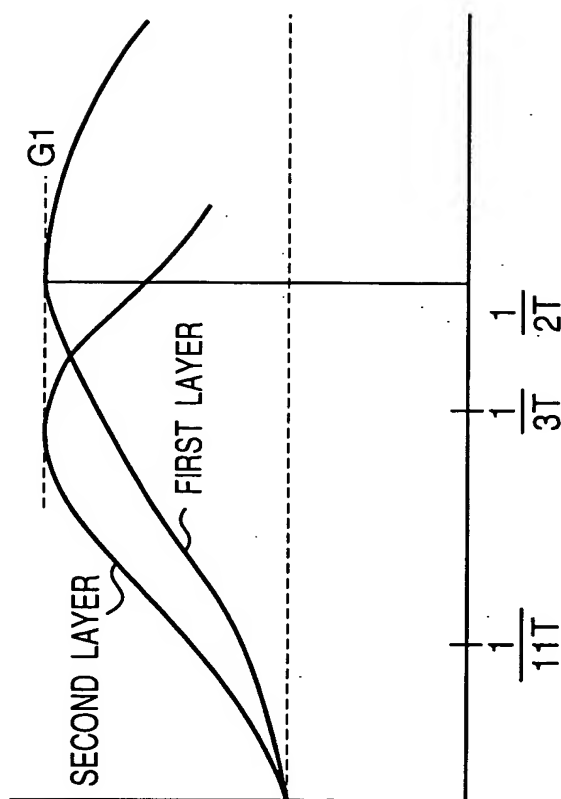


Fig. 16A

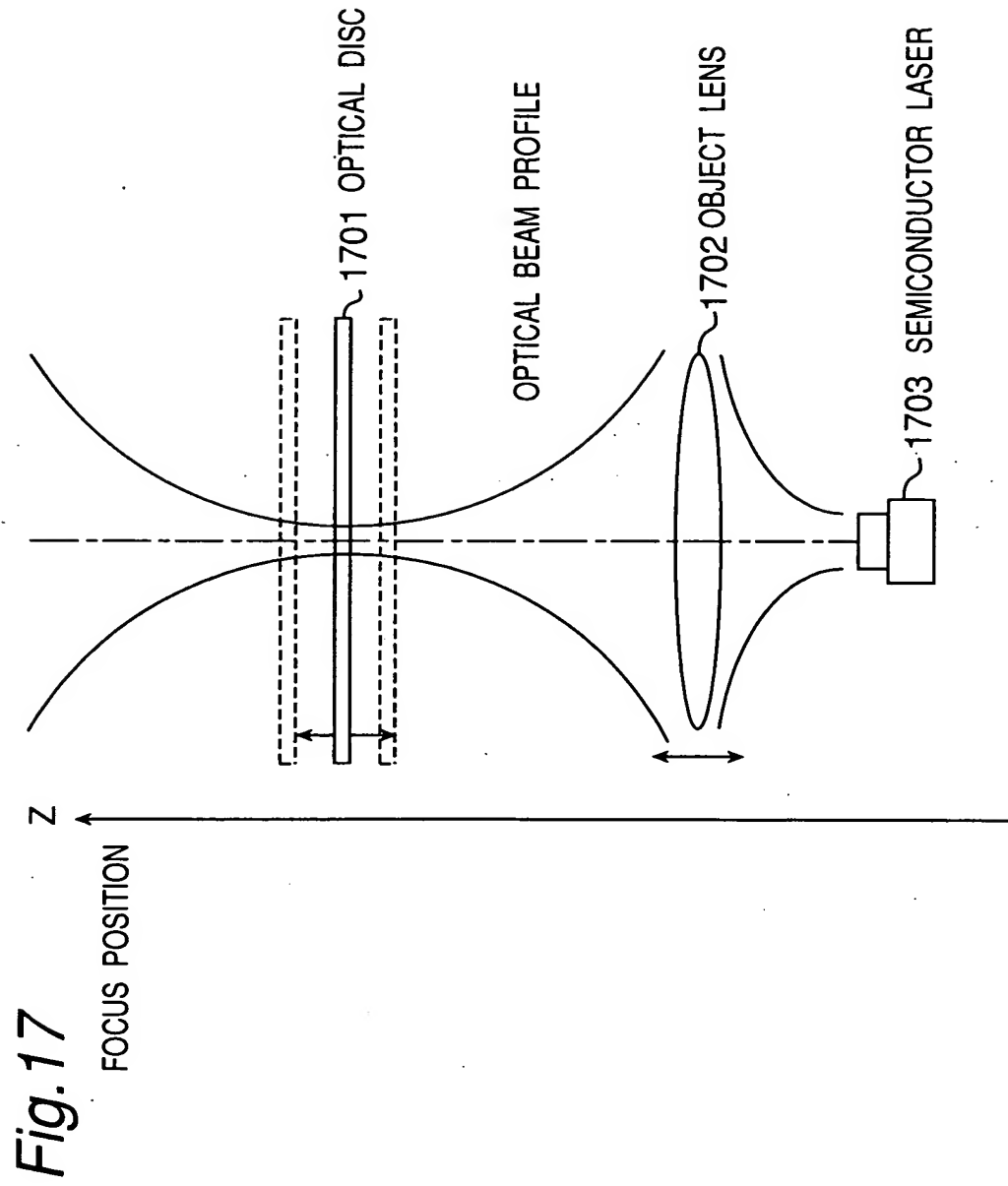


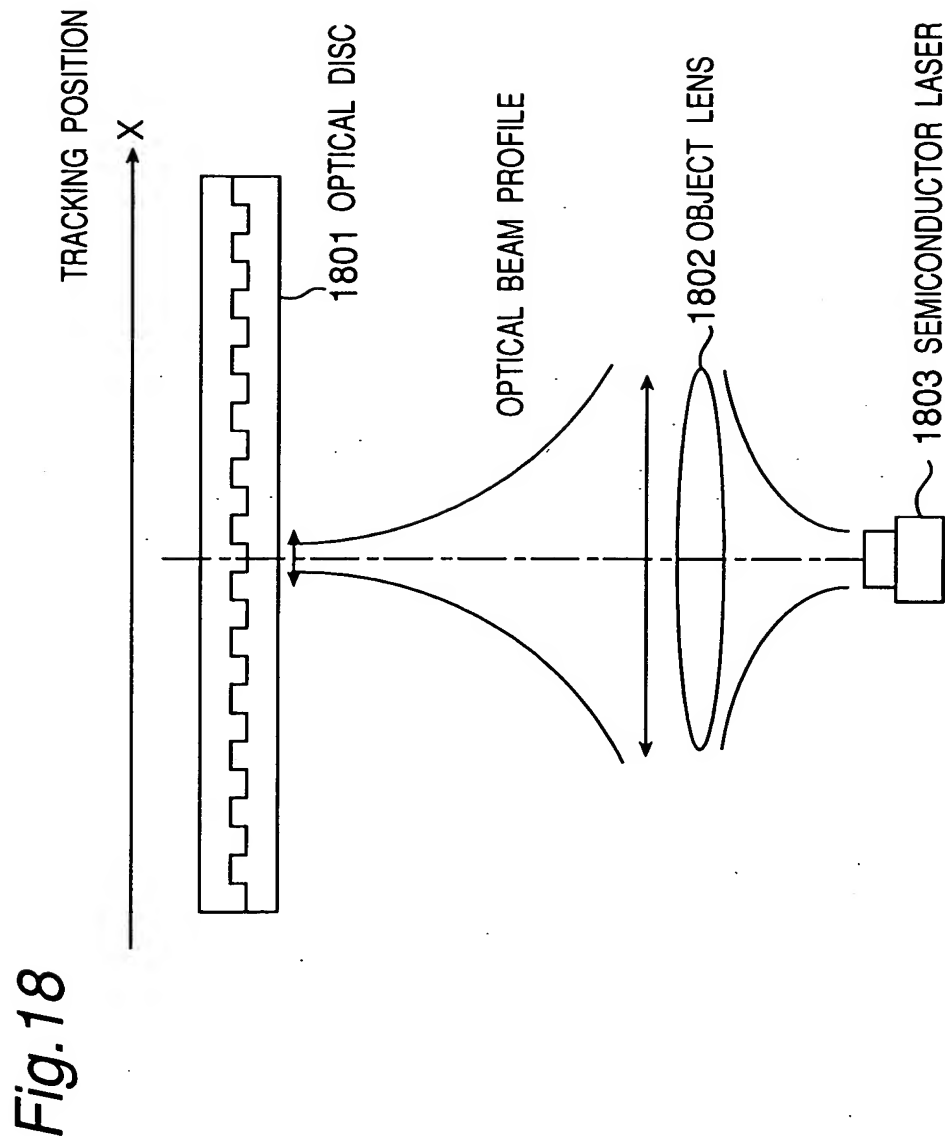
EQUALIZATION CURVE

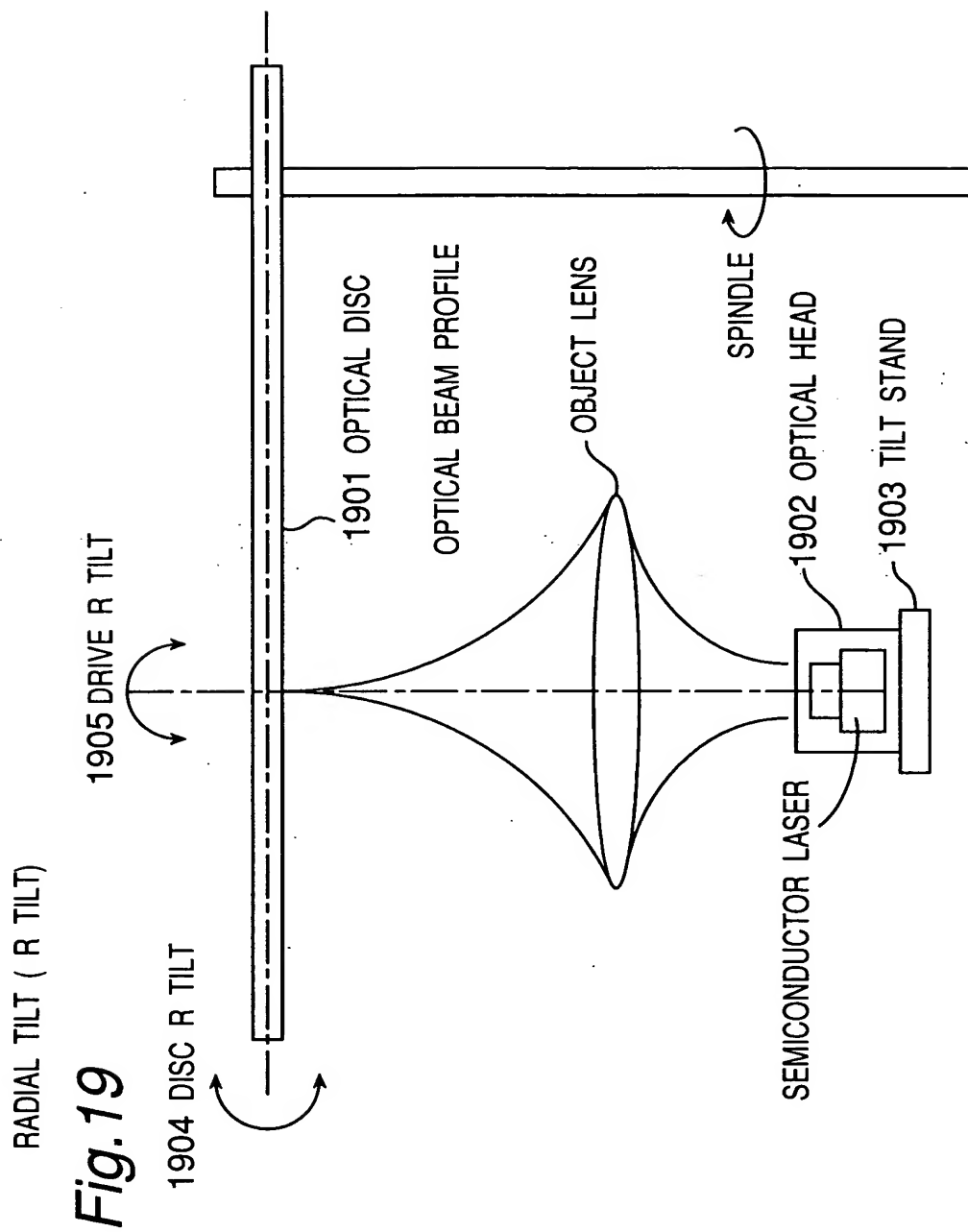
Fig. 16B











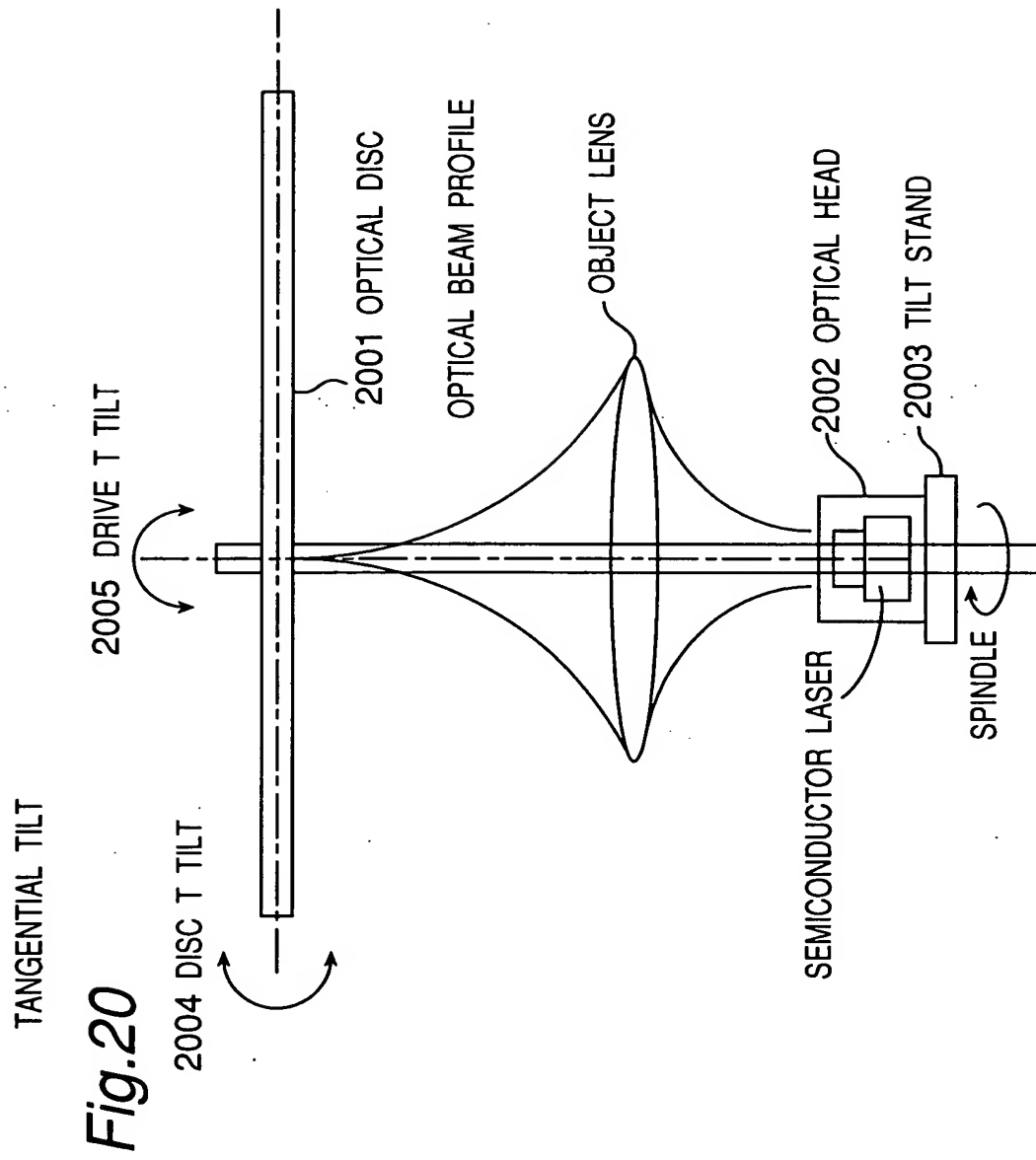
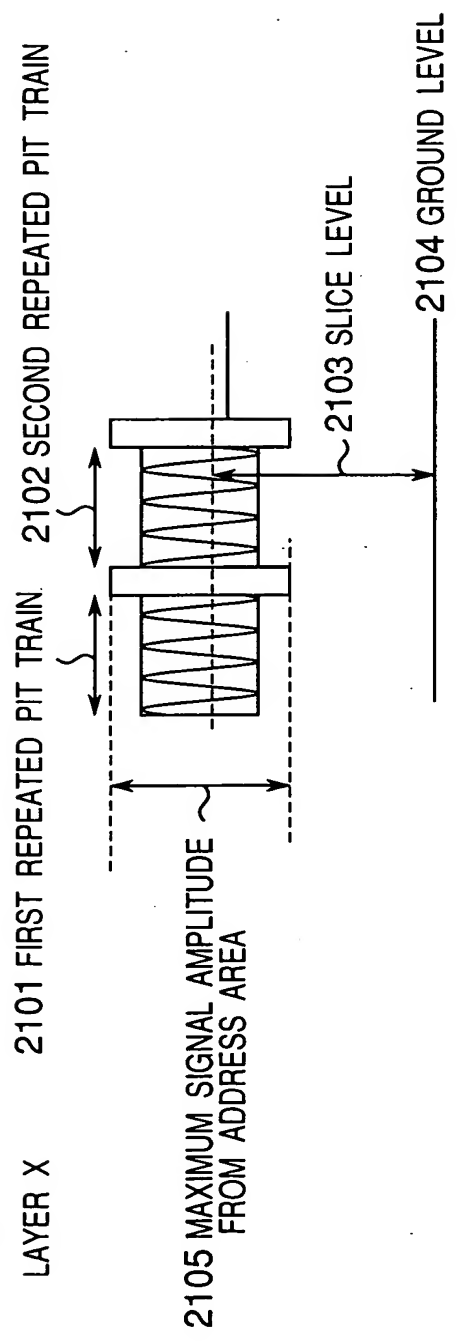


Fig.21



DETECT AS  
THE FIRST LAYER

THRESHOLD VALUE 1a<2103 SLICE LEVEL<THRESHOLD VALUE 1b OR  
THRESHOLD VALUE 1c<2105 MAXIMUM SIGNAL AMPLITUDE FROM ADDRESS AREA  
<THRESHOLD VALUE 1d

DETECT AS  
THE SECOND LAYER

THRESHOLD VALUE 2a<2103 SLICE LEVEL<THRESHOLD VALUE 2b OR  
THRESHOLD VALUE 2c<2105 MAXIMUM SIGNAL AMPLITUDE FROM ADDRESS AREA  
<THRESHOLD VALUE 2d

Fig.22

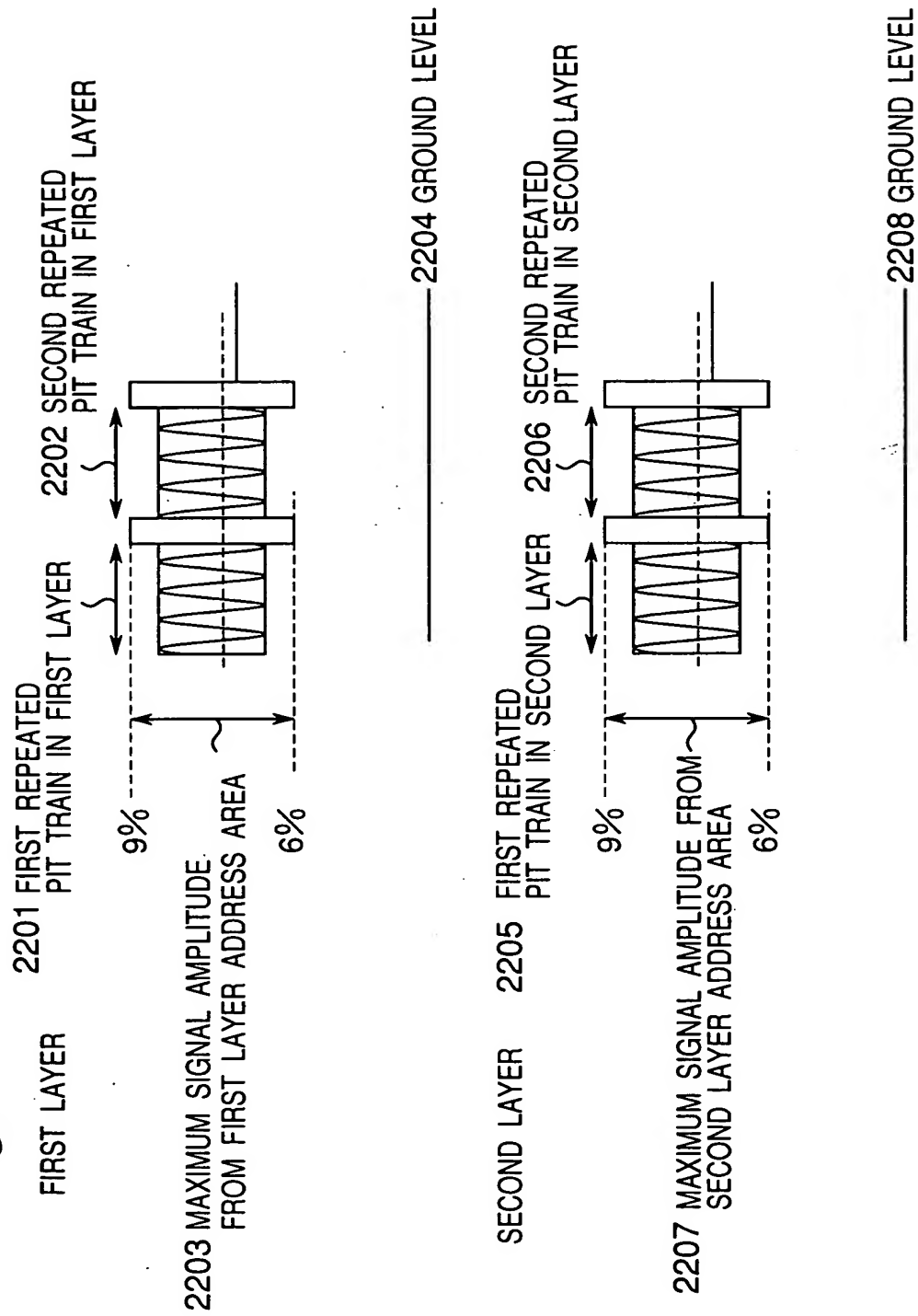


Fig.23

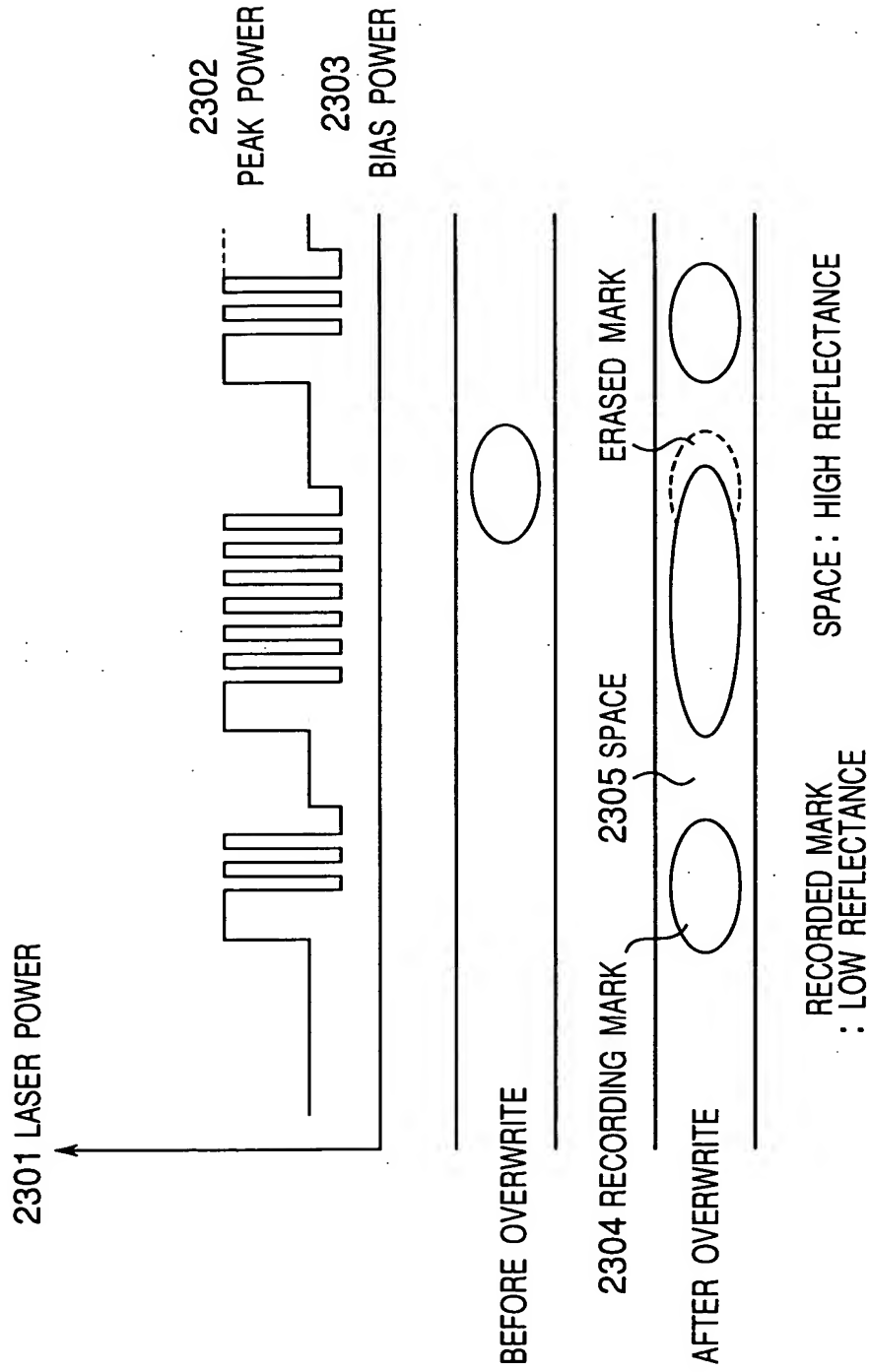
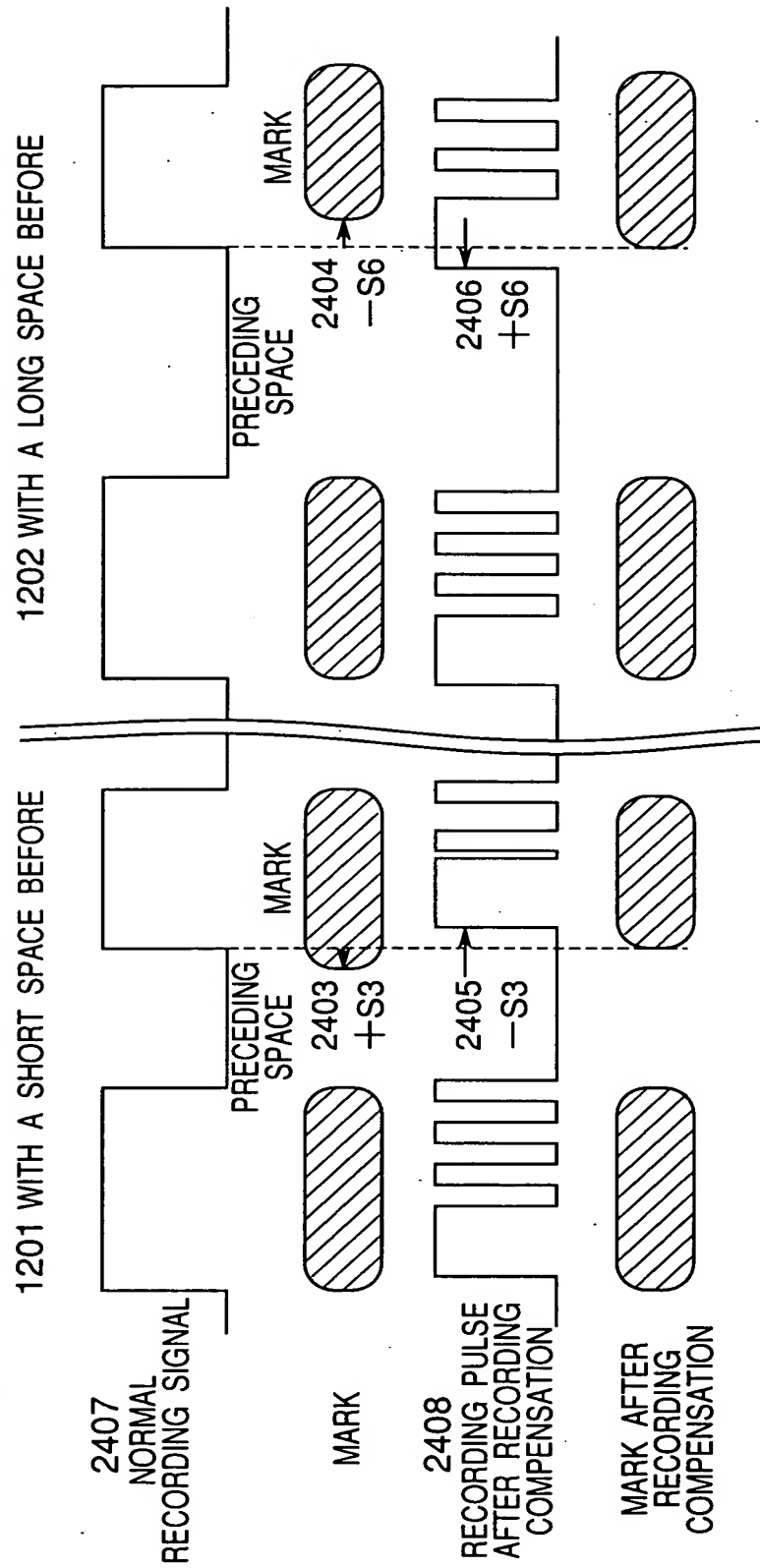


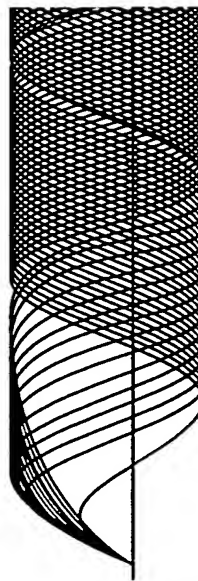
Fig. 24





*Fig.25*

2501 BEFORE ADAPTIVE  
RECORDING COMPENSATION  
JITTER 20%



2502 AFTER ADAPTIVE  
RECORDING COMPENSATION  
JITTER 8.2%

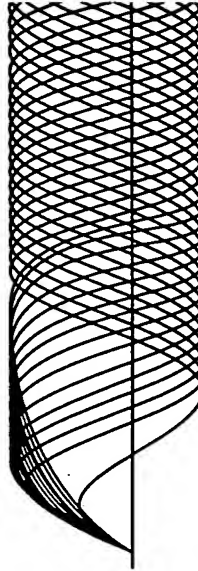
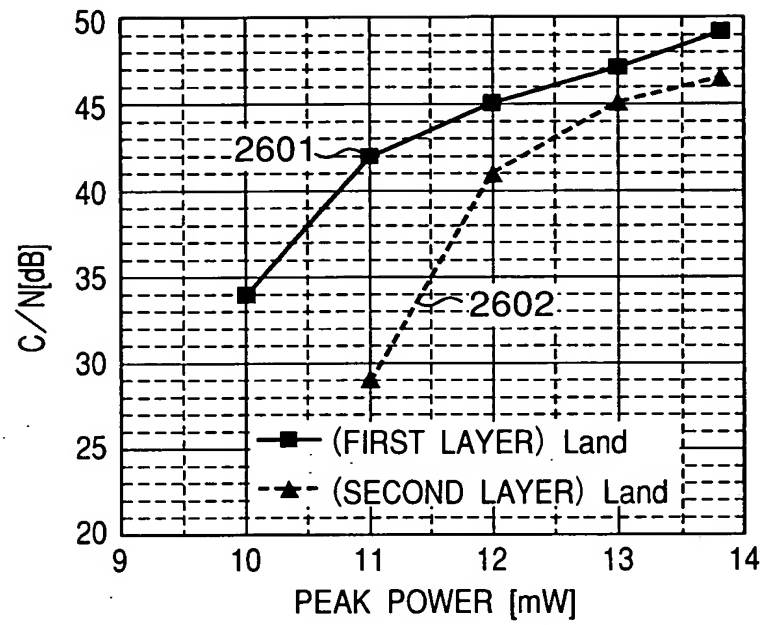


Fig.26



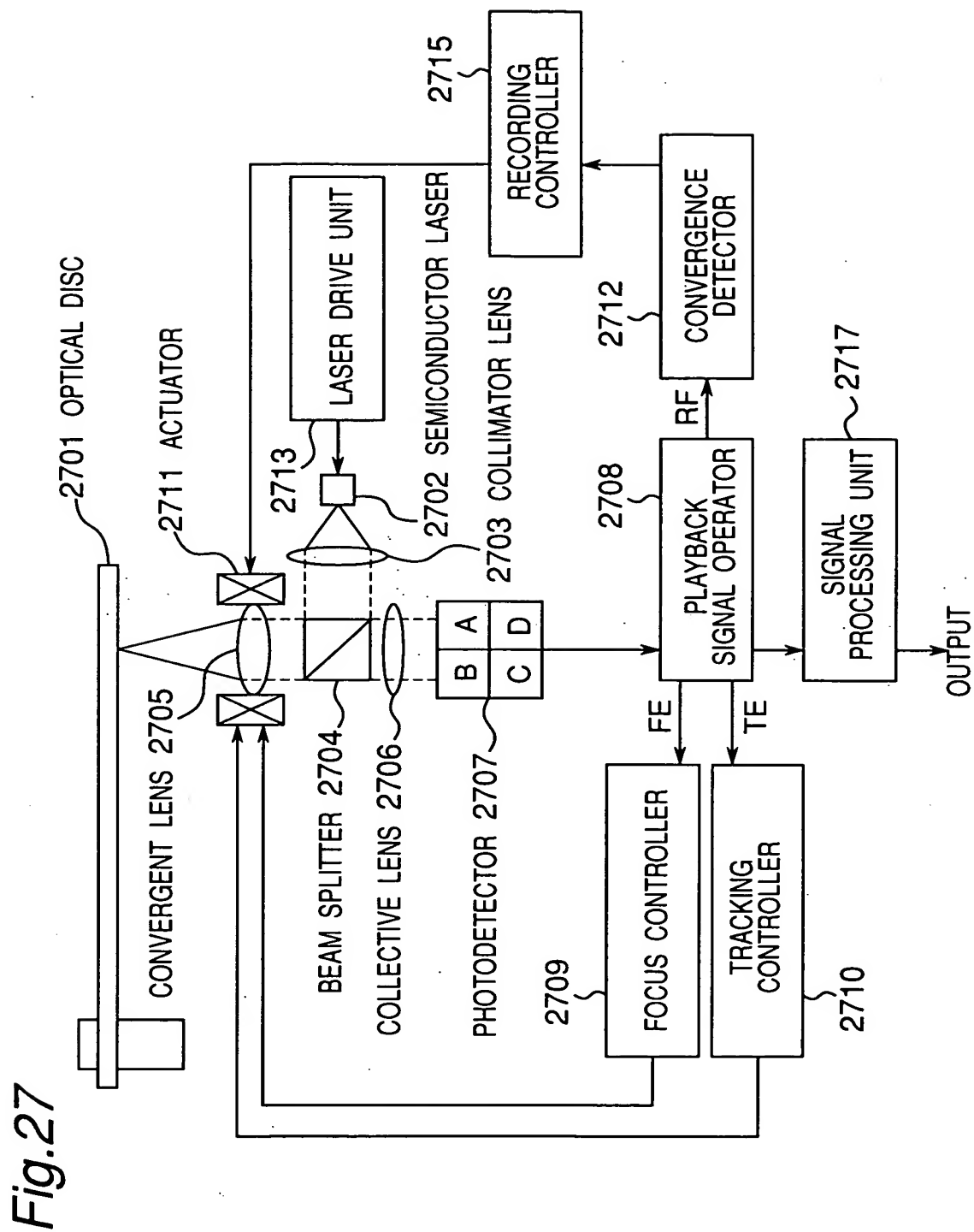


Fig.28

2801 FIRST PULSE POSITION	Tsfp	RECORDING MARK LENGTH					2802 LAST PULSE POSITION	Telp	RECORDING MARK LENGTH				
		3T	4T	5T	>5T				3T	4T	5T	>5T	
LENGTH OF PRECEDING SPACE	3T	a	b	c	d		3T		q	r	s	t	
	4T	e	f	g	h		4T		u	v	w	x	
	5T	i	j	k	l		5T		y	z	aa	ab	
	>5T	m	n	o	p		>5T		ac	ad	ae	af	

Fig.29

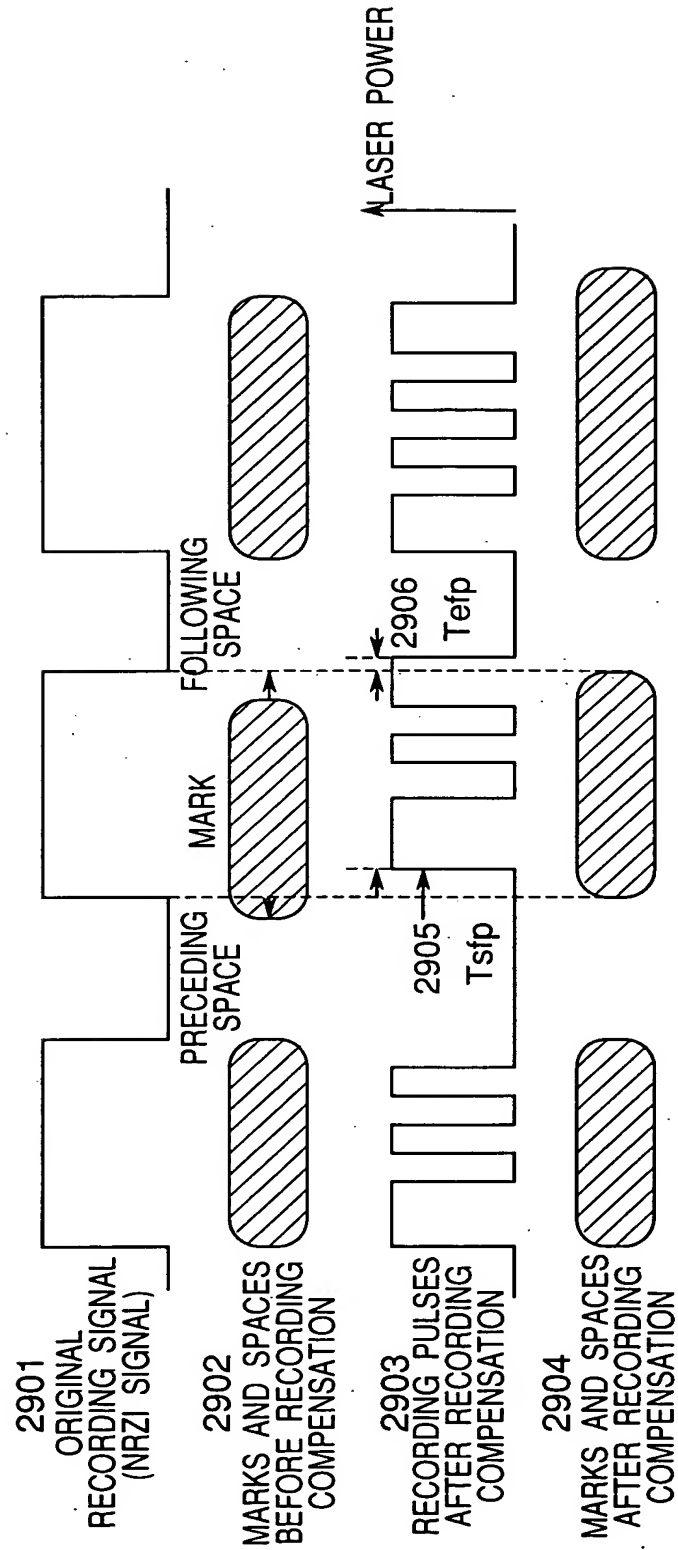
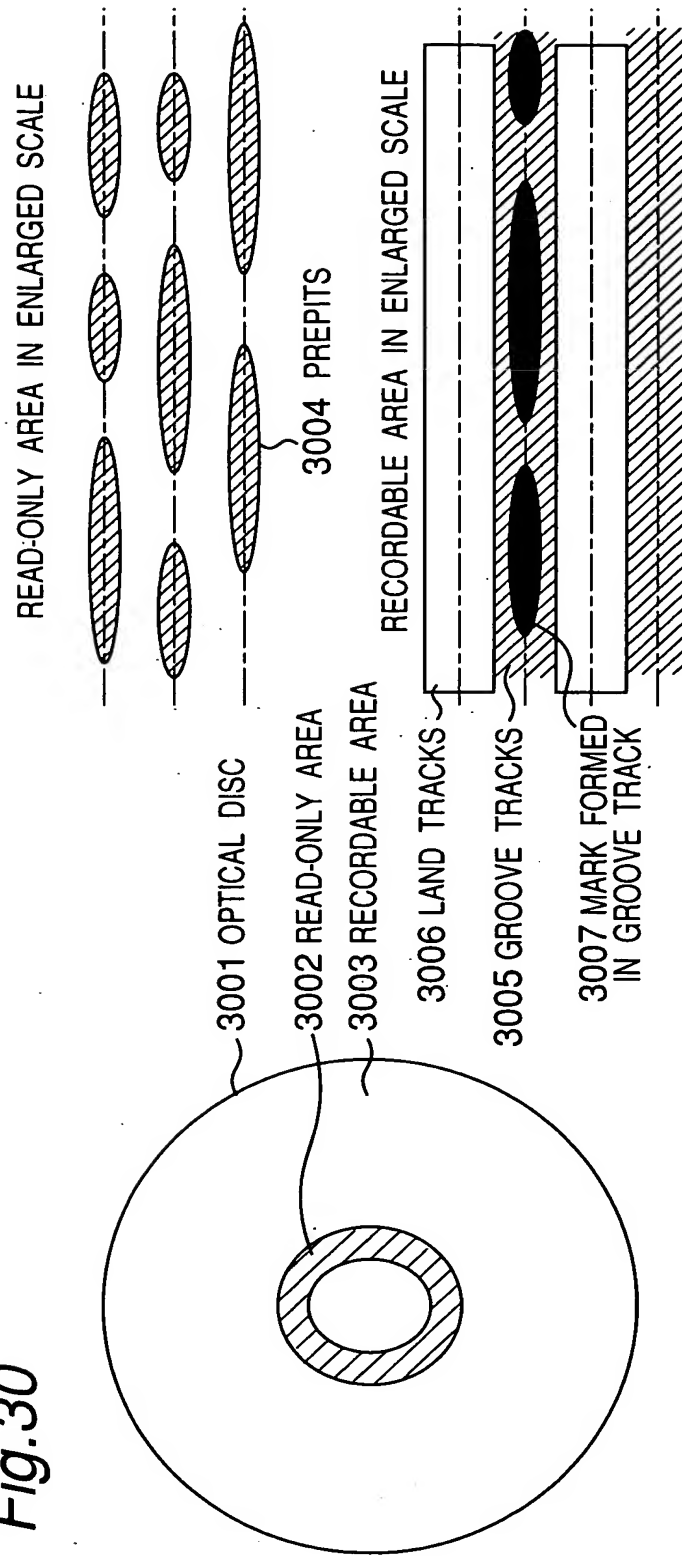
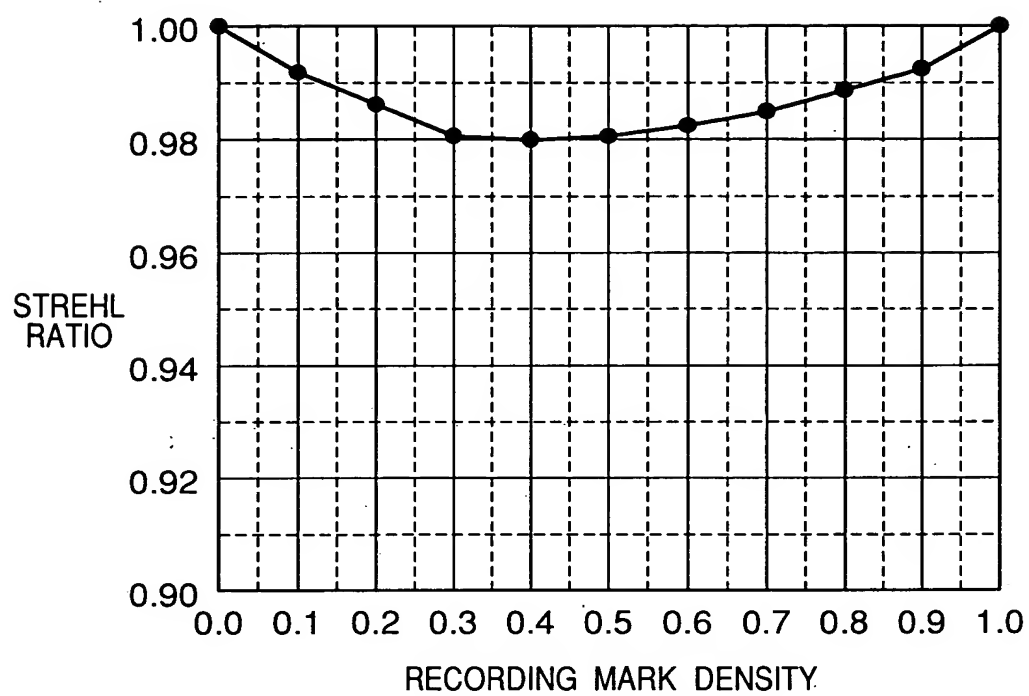


Fig.30



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*Fig.31*

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Fig.32

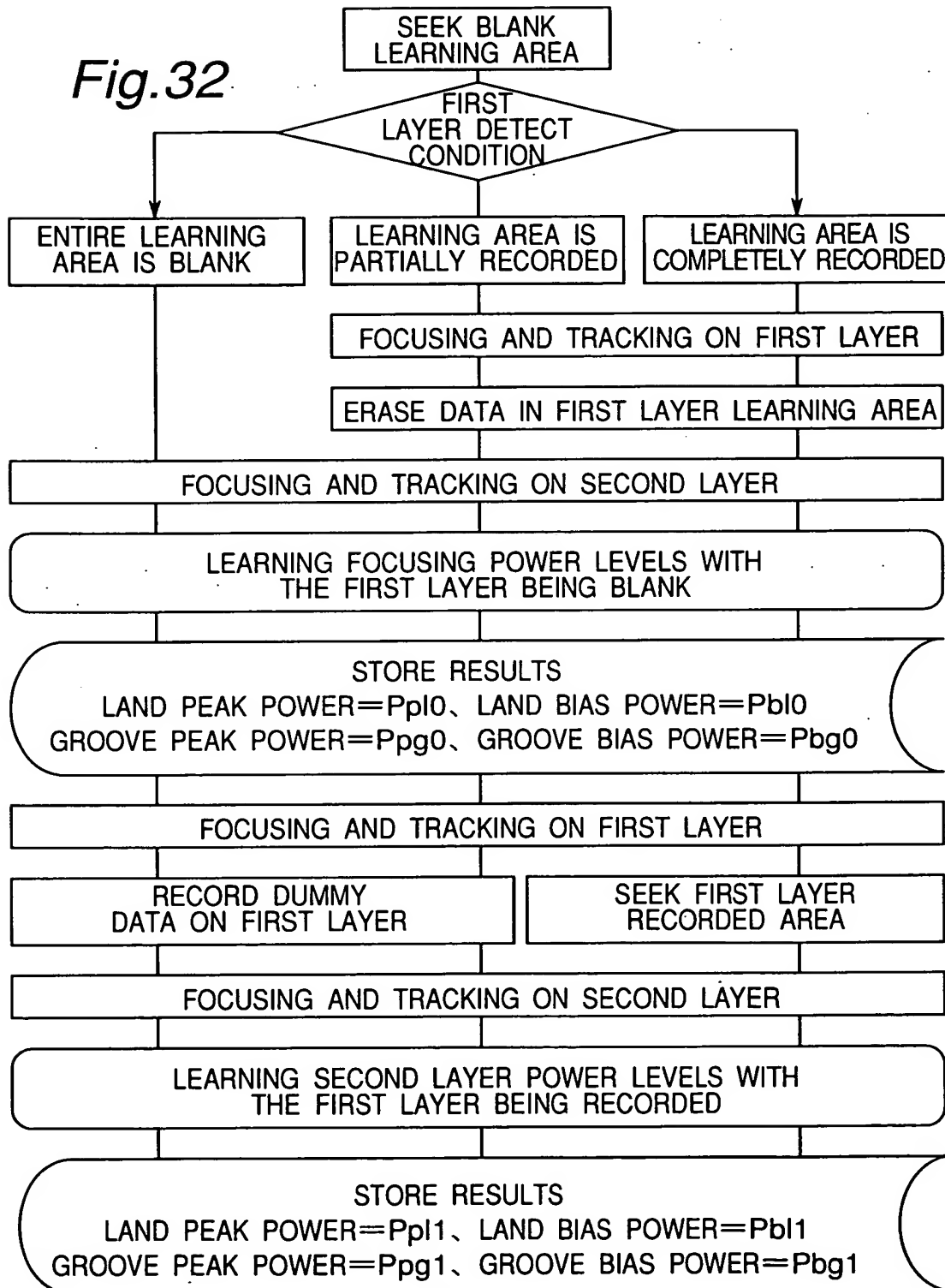




Fig.33

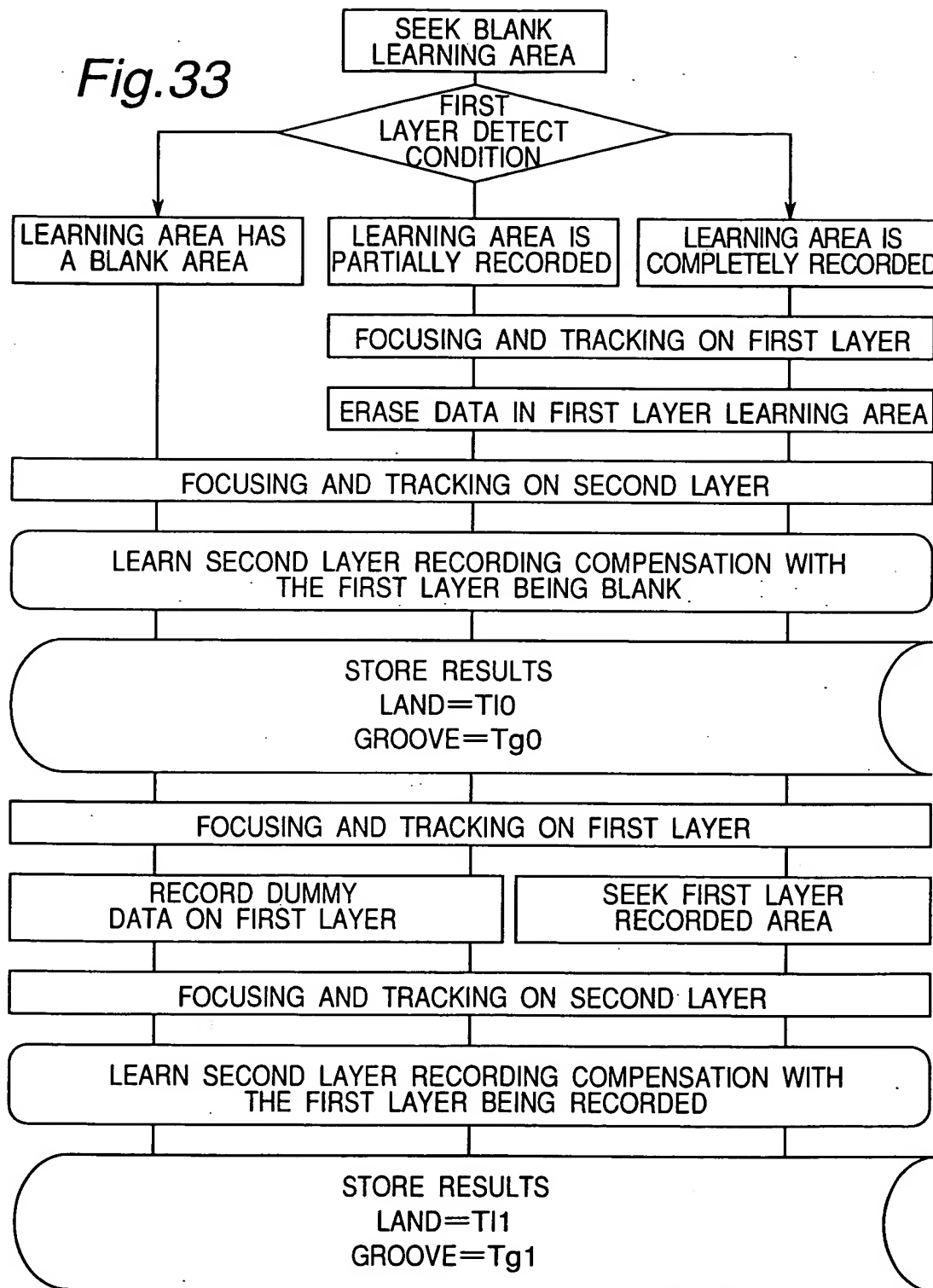
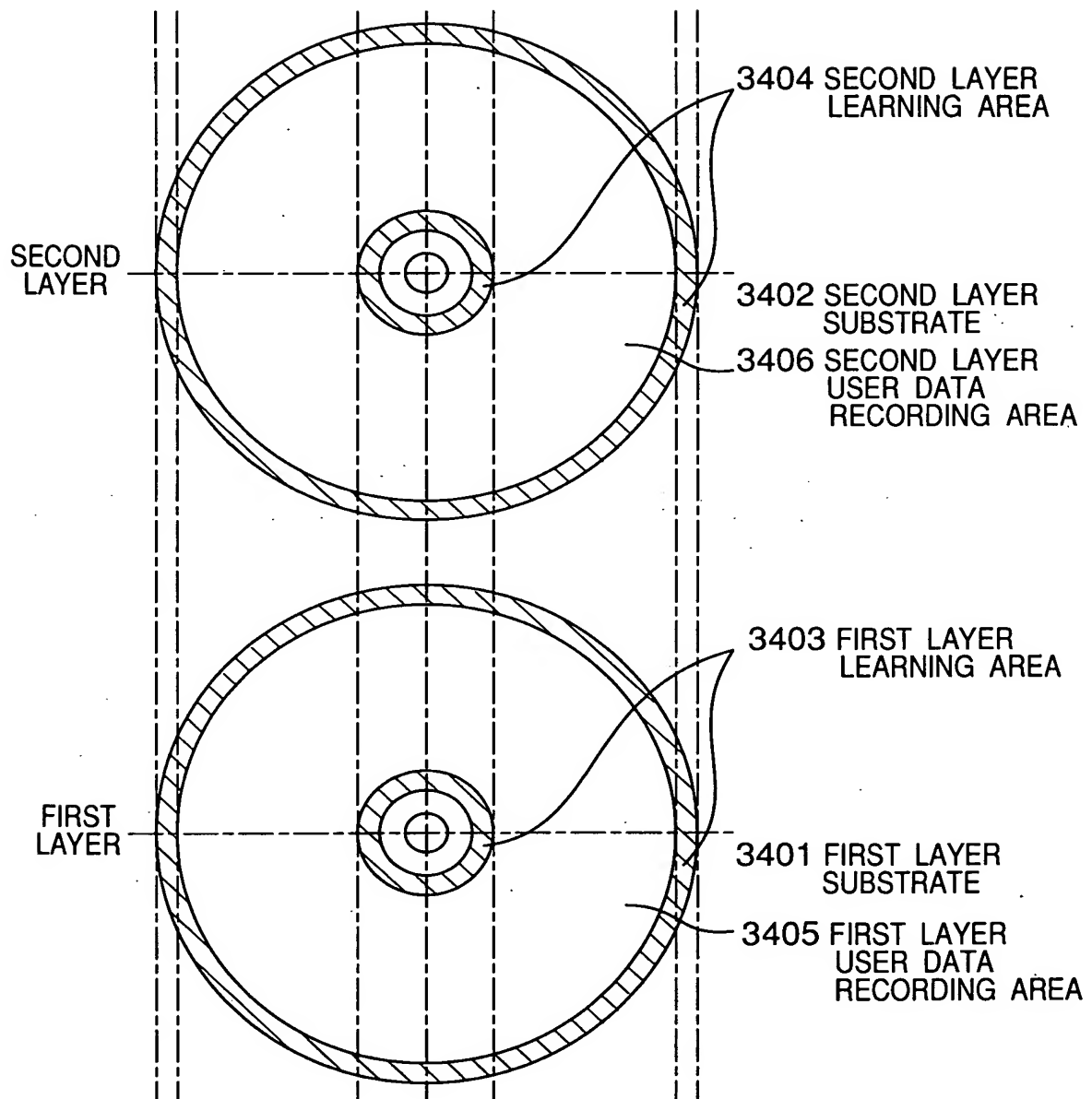


Fig.34



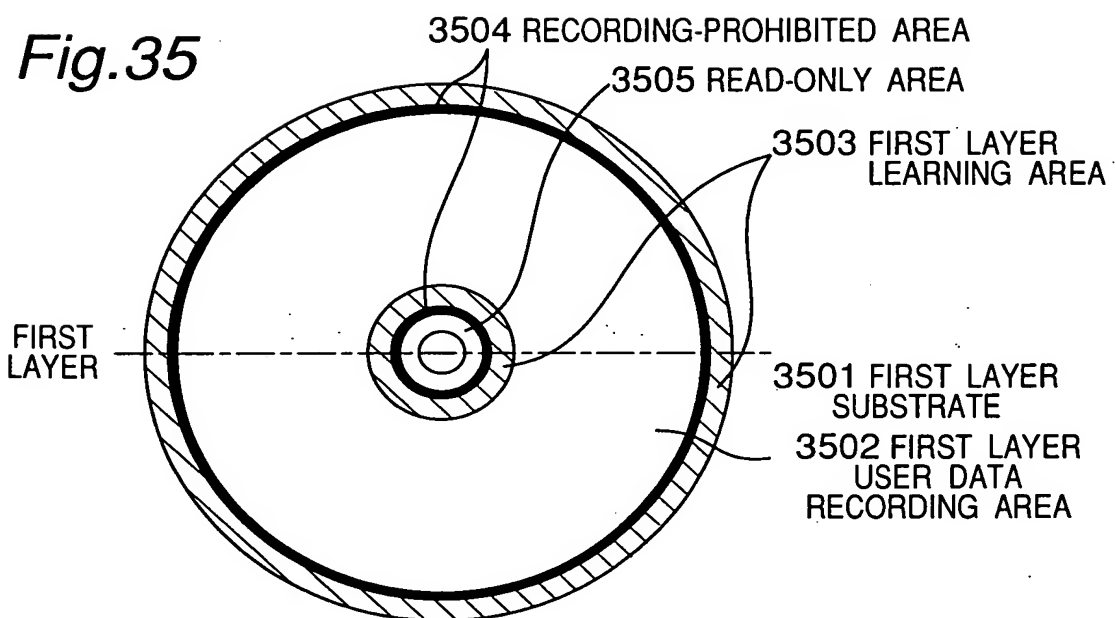


Fig.36

3605 RECORDING COMPENSATION TABLE T10		3606 RECORDING COMPENSATION TABLE T11	
3601	3602	3603	3604
FIRST PULSE POSITION BEFORE RECORDING FIRST LAYER	LAST PULSE POSITION BEFORE RECORDING FIRST LAYER	FIRST PULSE POSITION BEFORE RECORDING FIRST LAYER	LAST PULSE POSITION BEFORE RECORDING FIRST LAYER
Tsfp	Telp	Tsfp	Telp
RECORDING MARK LENGTH	RECORDING MARK LENGTH	RECORDING MARK LENGTH	RECORDING MARK LENGTH
3T 4T 5T >5T	3T 4T 5T >5T	3T 4T 5T >5T	3T 4T 5T >5T
3T	3T	3T	3T
4T	4T	4T	4T
5T	5T	5T	5T
>5T	>5T	>5T	>5T
LENGTH OF PRECEDING SPACE	LENGTH OF FOLLOWING SPACE	LENGTH OF PRECEDING SPACE	LENGTH OF FOLLOWING SPACE
A1 B1 C1 D1	Q1 R1 S1 T1	A2 B2 C2 D2	Q2 R2 S2 T2
E1 F1 G1 H1	U1 V1 W1 X1	E2 F2 G2 H2	U2 V2 W2 X2
I1 J1 K1 L1	Y1 Z1 Aa1 Ab1	I2 J2 K2 L2	Y2 Z2 Aa2 Ab2
M1 N1 O1 P1	Ac1 Ad1 Ae1 Af1	M2 N2 O2 P2	Ac2 Ad2 Ae2 Af2